



INVERTER

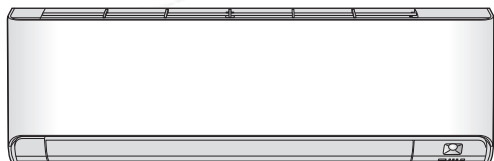


OPERATION MANUAL

DAIKIN ROOM AIR CONDITIONER

MODELS

- FTKM09WV2S
- FTKM12WV2S
- FTKM15WV2S
- FTKM18WV2S
- FTKM24WV2S



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Safety Precautions

	Read the precautions in this manual carefully before operating the unit.		This appliance is filled with R32.
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- 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.
- Keep this manual where the operator can easily find them.
- Read all safety precautions in this manual carefully before operating the unit.
- For safety reason the operator must read the following cautions carefully.
- 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.



Be sure to follow the instructions.



Never wet the air conditioner nor the remote controller with water.



Never touch the air conditioner nor the remote controller with wet hands.

WARNING



- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- The appliance must be installed, operated and stored in a room with floor area larger than $-*m^2$.
- * Since the maximum refrigerant charge of the models is below 1.22kg, it does not have any limitation for the minimum floor area.
- 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.
- It is not good for health to expose your body to the air flow for a long time.
- Do not place objects, including rods, your fingers, etc., in the air inlet or outlet. Product malfunctioning, product or injury damage may result due to contact with the air conditioner's high-speed fan blades.
- Do not attempt to repair, dismantle reinstall or modify the air conditioner yourself as this may result in water leakage, electric shocks or fire hazards.
- Do not 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.
- Do not use flammable spray near the air conditioner, or otherwise fire may result.
- Do not place flammable items, such as spray cans, within 1m of the air outlet.
The spray cans may explode as a result of hot air from the indoor or outdoor units.
- 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.
- Do not use a refrigerant other than the one indicated on the outdoor unit (R32) when installing, moving or repairing. Using other refrigerant may cause trouble or damage to the unit, and personal injury.



- The refrigerant used in the air conditioner is safe. Although leaks should not occur, if for some reason any refrigerant happens to leak into the room, make sure it does not come in contact with any flame as of gas heaters, kerosene heaters or gas range.
- If the air conditioner is not cooling properly, the refrigerant may be leaking, so call your dealer. When carrying out repairs accompanying adding refrigerant, check the content of the repairs with our service staff.

- Do not attempt to install the air conditioner by yourself. Incorrect work will result in water leakage, electric shocks or fire. For installation, consult the dealer or a qualified technician.
- In order to avoid electric shock, fire or injury, if you detect any abnormality such as smell of fire, stop the operation and turn off the breaker. And call your dealer for instructions.
- Do not wash the air conditioner with water, as this may result in electric shocks or fire.
- Do not place water containers (flower etc.) above the unit, as this may result in electric shocks or fire hazards.
- Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks or fire.
- 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.




- 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**


- Be aware that prolonged, direct exposure to cool air from the air conditioner, or to air that is too cool can be harmful to your physical condition and health.
- 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.
- Beware of fire in case of refrigerant leakage. If the air conditioner is not operating correctly, i.e. not generating cool 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 air conditioner until a qualified service person confirms that the leakage has been repaired.
- Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units. Under certain conditions, condensation on the main unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned.
- After prolonged use, check the unit stand and its mounts for damage. If left in a damaged condition, the unit may fall and cause injury.
- To avoid injury, do not touch the air inlet or aluminium fins of the indoor or outdoor units.
- The appliance is not intended for use by unattended young children or infirm persons. Impairment of bodily functions and harm to health may result.
- Children should be supervised to ensure that they do not play with the unit or its remote controller. Accidental operation by a child may result in impairment of bodily functions and harm health.
- Do not 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 give impact to the indoor and outdoor units, or otherwise product damage may result.
- 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.
- Be careful not to let pets urinate on the air conditioner. Urination on the air conditioner may result in electric shocks or fire.
- Do not sit or hang on the panel. The panel may fall, and injury or product malfunctioning may result.
- Do not sway the panel. The panel may hit people or objects, and injury or property damage may result.
- Do not let children play around the panel. Injury or property damage may result.
- Do not pull the wires. The wires may be broken and the panel may fall, and injury or property damage may result.
- Do not locate obstacles in the route. The panel may fall, and injury or property damage may result.
- Do not bend or damage the wires. The wires may be broken and the panel may fall, and injury or property damage may result.

Safety Precautions

- Do not put objects on the panel, or otherwise production malfunctioning may result.
- Do not use an unstable stand at the time of operating or maintaining the air conditioner, or otherwise you may topple over or injury yourself.
- Locate the remote controller in places out of reach of children. The wrong operation of the remote controller may result in injury.

-
-  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.
 - Do not connect the air conditioner to a power supply different from the one as specified. 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.
 - Arrange the drain hose to ensure smooth drainage. Incomplete draining 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.

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

-
-  Do not wash the indoor unit with excessive water, only use a slightly wet cloth.
 - Do not place things such as vessels containing water or anything else on top of the unit. Water may penetrate into the unit and degrade electrical insulations, resulting in an electric shock.

This is an appliance that is not accessible to the general public.

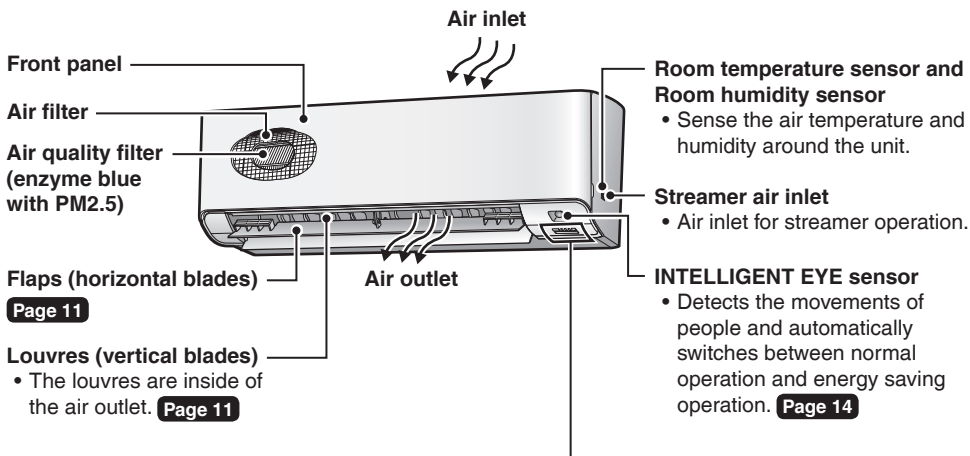
- Be sure to follow the instructions below.
 - The indoor unit is at least 1m away from any television or radio set (unit may cause interference with the picture or sound).
 - Refrain from using the units in areas prone to high levels of oily smoke, such as a kitchen. Water leakage may result.

Names of Parts

Indoor Unit

FTKM09/12/15/18*/24*

* Appearance of indoor units may differ from some model



Display

MOLD PROOF lamp (Green)

Page 16

TIMER lamp (Orange)

Page 21, 22

Indoor unit ON/OFF switch and OPERATION lamp (Green)

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

Mode	Temperature setting	Airflow rate
COOL	22.0°C	AUTO

- This switch can be used when the remote controller is missing or out of batteries.

STREAMER lamp (Green)

Page 18

Wireless LAN connecting adapter lamp (Orange) (separately sold part)

- To purchase a wireless LAN connecting adapter, contact the dealer where you bought the air conditioner.

Item	Part No.
Wireless LAN connecting adapter	BRP084C42

Signal receiver:

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

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

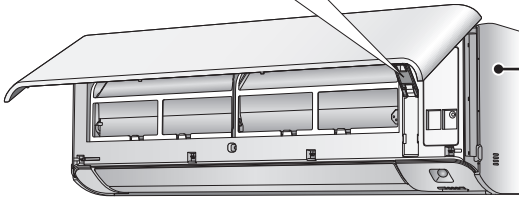
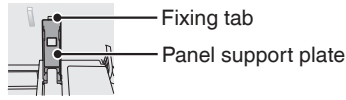
List of lamps

Lamp	Colour	State	Description
OPERATION lamp	green	Lights up	The air conditioner is running.
		Blinks	Check the error code.
TIMER lamp	orange	Lights up	TIMER is set. Page 21, 22
MOLD PROOF lamp	green	Lights up	MOLD PROOF operation. Page 16
STREAMER lamp	green	Lights up	STREAMER operation. Page 18

Names of Parts

■ Open the front panel

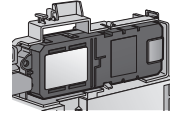
Backside of the front panel



Streamer unit (inside)

Prevents mold and allergens with the decomposition power of the streamer discharge.

Page 18



■ Outdoor Unit

RKM09/12

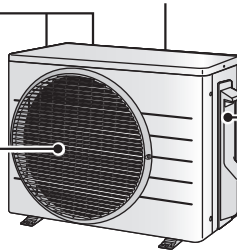
Outside air temperature sensor: (Back)

- It senses the ambient temperature around the unit.

Air inlet:

- Back RKM09
- Back and side RKM12

Air outlet



Refrigerant piping and inter-unit cable

Earth terminal:

- It is inside of this cover.

Drain hose

RKM15/18/24

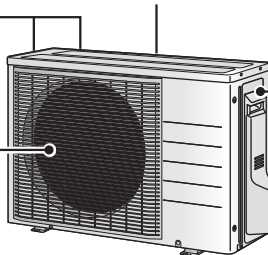
Outside air temperature sensor: (Back)

- It senses the ambient temperature around the unit.

Air inlet:

(Back and side)

Air outlet



Earth terminal:

- It is inside of this cover.

Refrigerant piping and inter-unit cable

Drain hose

■ Remote Controller

Signal transmitter:
 • It sends signals to the indoor unit.

MODE selector button:

- It selects the operation mode (COOL/DRY/FAN ONLY).

Page 9

TEMPERATURE adjustment buttons:

- Changes the temperature setting.

Page 9

SENSOR button:

- INTELLIGENT EYE operation.

Page 14

FLASH STREAMER AIR CLEANING button:

- Flash streamer air cleaning operation. **Page 18**

CHILD LOCK button:

- Prevents child from operating the remote controller by mistake. **Page 20**

QUIET button:

- OUTDOOR UNIT QUIET operation. **Page 19**

ON TIMER button: **Page 22**

OFF TIMER button: **Page 21**

Display (LCD):

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

OFF button:

- Press this button once to stop operation. **Page 9**

FAN setting button:

- Selects the airflow rate setting. **Page 10**

ECONO button:

- ECONO operation. **Page 15**

POWERFUL button: **Page 12**

SWING button:

- Adjusting the Airflow Direction. **Page 11**

MOLD PROOF button:

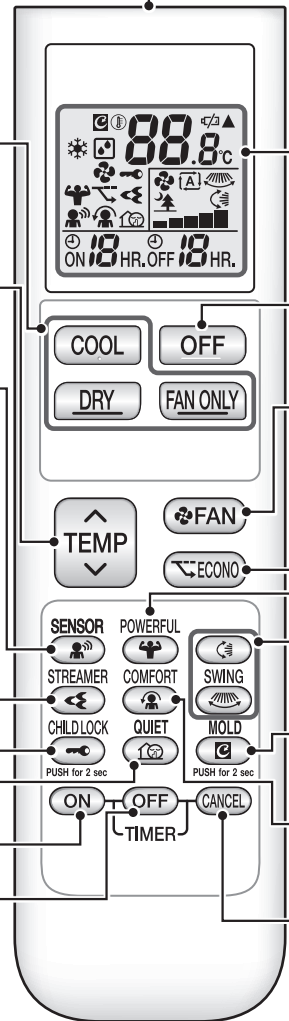
- MOLD PROOF operation. **Page 16**

COMFORT button:

- COMFORT AIRFLOW operation. **Page 13**

TIMER CANCEL button:

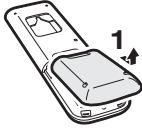
- Cancels the timer setting.



Model name	ARC480A77
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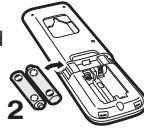
Preparation Before Operation

■ To set the batteries

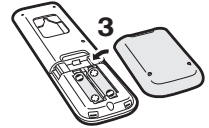


Slide the back cover to take it off.

Position ⊕ and ⊖ correctly!



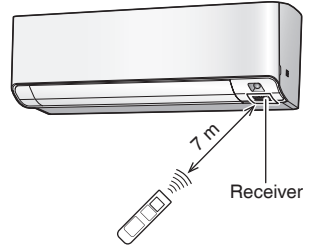
Set two dry batteries AAA.LR03 (alkaline).



Set the back cover as before.

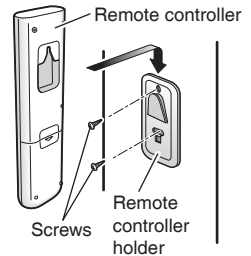
■ To operate the remote controller

- To use the remote controller, aim the transmitter at the indoor unit. If there is anything blocking 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 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.



■ Turn the breaker on



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

ATTENTION

■ About batteries

- The batteries will last for approximately one year. If the remote controller display begins to fade and the degradation of reception performance occurs within a year, however, replace both two batteries with new size AAA.LR03 (alkaline) batteries.
- When the system is not used for a long time, take the batteries out.
- When replacing the batteries, use batteries of the same type, and replace the 2 old batteries together.

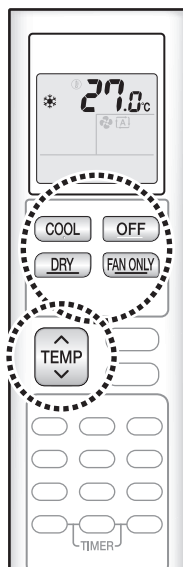
■ Low batteries alert

- 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.
- When battery power has run out, “” will begin blinking as an alert that the batteries need replacing. In some cases, when battery consumption is accelerated owing usage conditions, signal reception may decline before “” begins blinking.

■ 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.

COOL/DRY/FAN ONLY Operation



The air conditioner operates in the user selected operation mode.

■ To start operation

▶ Press button of your desired operation mode.

COOL operation

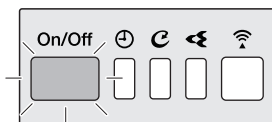
- Press **COOL** . “❄” appears on the LCD

DRY operation

- Press **DRY** . “☁” appears on the LCD

FAN ONLY operation

- Press **FAN ONLY** . “🌀” appears on the LCD



COOL/DRY/FAN ONLY operation,
the OPERATION lamp lights green.

- Operation mode can be changed while operating by pressing your desired operation mode button.

■ To stop operation

▶ Press **OFF** .

- Then OPERATION lamp goes off.

■ To change the temperature setting

▶ Press **TEMP** .

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

COOL operation	DRY or FAN ONLY operation
16-32°C	The temperature setting is not available.
Press ▲ to raise the temperature and press ▼ to lower the temperature. Each pressing of the button changes the temperature by 0.5°C.	

NOTE

MODE	Notes on each operation mode
COOL	<ul style="list-style-type: none"> • This air conditioner cools the room by releasing the heat in the room outside. Therefore the cooling performance of the air conditioner may be decrease if the outdoor temperature is high.
DRY	<ul style="list-style-type: none"> • The computer chip works to rid the room of humidity while maintaining the temperature as much as possible. It automatically controls temperature and airflow rate, so manual adjustment of these functions is unavailable. • When the indoor temperature rises, COOL operation automatically starts.
FAN ONLY	<ul style="list-style-type: none"> • This mode is valid for fan only.

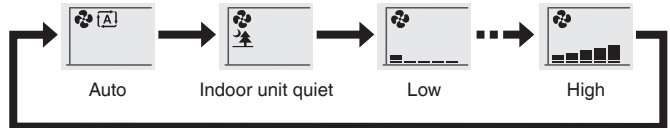
Adjusting the Airflow Rate

You can adjust the airflow rate to increase your comfort.

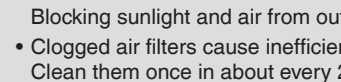
■ To adjust the airflow rate setting

● Press **FAN**.

- Each pressing of **FAN** change the airflow rate setting in sequence shown below.



- When the airflow is set to “”, indoor unit quiet operation will start and the noise from the unit will become quieter.
- In indoor unit quiet operation, the airflow rate is set to a weak level.
- If the temperature does not reach the desired point, change the airflow rate setting.
- If COOL/DRY operation is started with airflow settings on “AUTO”, the indoor unit will initially deodorise, which functions to suppress any internal odours. As a result, the indoor unit will not emit air immediately. (Wait for about 1 minute.)
- At smaller airflow rates, the cooling effect is also smaller.



Tips for saving energy

- Be careful not to cool the room too much.
Keeping the temperature setting at a moderate level helps save energy.
- Recommended temperature setting for cooling is 26-28°C.
- Cover windows with a blind or a curtain.
Blocking sunlight and air from outdoors increases the cooling effect.
- Clogged air filters cause inefficient operation and waste energy.
Clean them once in about every 2 weeks.

Adjusting the Airflow Direction



You can adjust the airflow direction to increase your comfort.

ATTENTION

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

[To operate automatically]

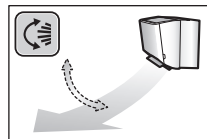
■ To adjust the flaps (horizontal blades)

Up and down airflow direction

● Press  .

- “” appears on the LCD.

The flaps (horizontal blades) will begin to swing.



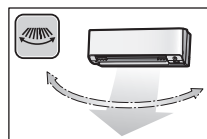
■ To adjust the louvres (vertical blades)

Right and left airflow direction

● Press  .





- “” appears on the LCD.

The louvres (vertical blades) will begin to swing.

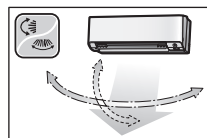


■ The 3-D airflow direction

● Press  and  .

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

The flaps or louvres will stop moving.





[To operate manually]

■ To set the flaps or louvres at the desired position

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

● Press  and  when the flaps or louvres reach the desired position.

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

NOTE

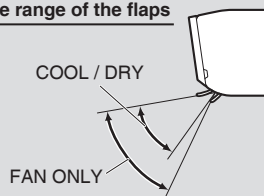
■ Note on airflow direction setting

- The movable range of the flaps varies according to the operation mode, refer to the right picture.

■ Note on 3-D airflow

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

Movable range of the flaps




POWERFUL Operation



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

■ To start

Press ^{POWERFUL}  during operation.

- POWERFUL operation ends in 20 minutes. Then the system automatically operates again with the previous settings which were used before POWERFUL operation.
- “” appears on the LCD.



■ To cancel

Press ^{POWERFUL}  again.

- “” disappears from the LCD.

NOTE

■ Notes on POWERFUL operation

- Pressing  causes the settings to be cancelled, and “” disappears from the LCD.
- POWERFUL operation will not increase the capacity of the air conditioner if the air conditioner is already in operation with its maximum capacity demonstrated.

– In COOL operation

To maximise the cooling effect, the capacity of outdoor unit increases and the airflow rate becomes fixed at the maximum setting.

The temperature and airflow settings cannot be changed.

– In DRY operation

The temperature setting is lowered by 2.5°C and the airflow rate is slightly increased.

– In FAN ONLY operation

The airflow rate is fixed at the maximum setting.

Regarding the combination of POWERFUL and other operations

POWERFUL + COMFORT AIRFLOW	Not available*
POWERFUL + ECONO	
POWERFUL + OUTDOOR UNIT QUIET	

*Priority is given to the function of whichever button is pressed last.

COMFORT AIRFLOW Operation



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

■ To start

Press  .

- “” appears on the LCD.

	COOL operation	DRY operation
Flaps direction	Goes up	
Airflow rate	The airflow rate can be set to any level	AUTO

- Not available in FAN ONLY Mode.

■ To cancel

Press  .

- “” disappears from the LCD.

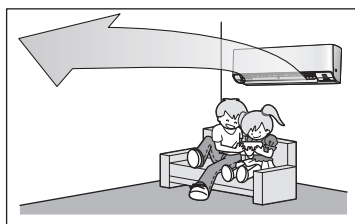
NOTE

■ Notes on COMFORT AIRFLOW operation

- The flaps position will change, preventing air from blowing directly on the occupants of the room.
- POWERFUL operation cannot be used together with ECONO/COMFORT AIRFLOW/ OUTDOOR UNIT QUIET operation.
Priority is given to the function of whichever button is pressed last.
- COMFORT AIRFLOW Operation ,the flow of air will be in the upward direction while in COOL/ DRY operation, which will provide a comfortable wind that will not come indirect contact with people.

COMFORT AIRFLOW Operation (COOL/DRY mode)

- Direction of the flaps: Upward (ceiling airflow)



INTELLIGENT EYE Operation



“INTELLIGENT EYE” is the infrared sensor which detects the human movement. If no one is in the room for more than 20 minute, the operation automatically changes to energy saving operation.

⚠ CAUTION

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

■ To start

- Press  .
 - “” appears on the LCD.

■ To cancel

- Press  again.
 - “” disappears from the LCD.

NOTE

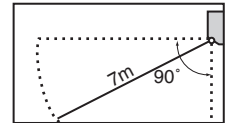
■ Energy saving operation

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

■ Notes on INTELLIGENT EYE operation

- While the air conditioner is in INTELLIGENT EYE operation. If no people are detected in sensing area within 20 minutes, the air conditioner will go into energy-saving mode with the set temperature shifted by 2°C. The air conditioner may go into energy saving operation even if there are people in the area. This may occur depending on the clothes the people are wearing if there are no movements of the people in the area.
- Due to the position of the sensor, people might be exposed to the airflow of the indoor unit if they are close to the front side of the indoor unit.
- 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 could also mistakenly detects pets, sunlight, fluttering curtains and light reflected off of mirrors as passersby.

Vertical angle 90°
(Side View)



Application range is as follows.

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


- Press **ECONO** .
 - “” appears on the LCD.

■ To cancel

- Press **ECONO** again.
 - “” disappears from the LCD.

NOTE

■ Notes on ECONO operation

- ECONO Operation can only be set when the unit is running. Pressing **OFF** 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 COOL and DRY operation.
- POWERFUL operation cannot be used together with ECONO/COMFORT AIRFLOW/OUTDOOR UNIT QUIET operation. Priority is given to the function of whichever button is pressed last.
- If the power consumption level is already low, switching to ECONO operation will not reduce the power consumption.

MOLD PROOF Operation




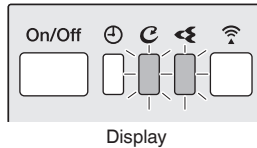
MOLD PROOF operation is a function which reduces the spread of mold by using FAN operation to lower the humidity inside the indoor unit.

[To operate automatically]

■ To set

▶ Press  and hold the button for 2 seconds.

- “” appears on the LCD.
- After DRY or COOL operation stops, the air conditioner starts MOLD PROOF operation automatically.
- MOLD PROOF operation lamp lights green and FLASH STREAMER AIR CLEANING operation lamp lights up.





■ To cancel

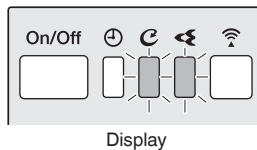
▶ Press  and hold the button for 2 seconds one more time.

- “” disappears from the LCD.

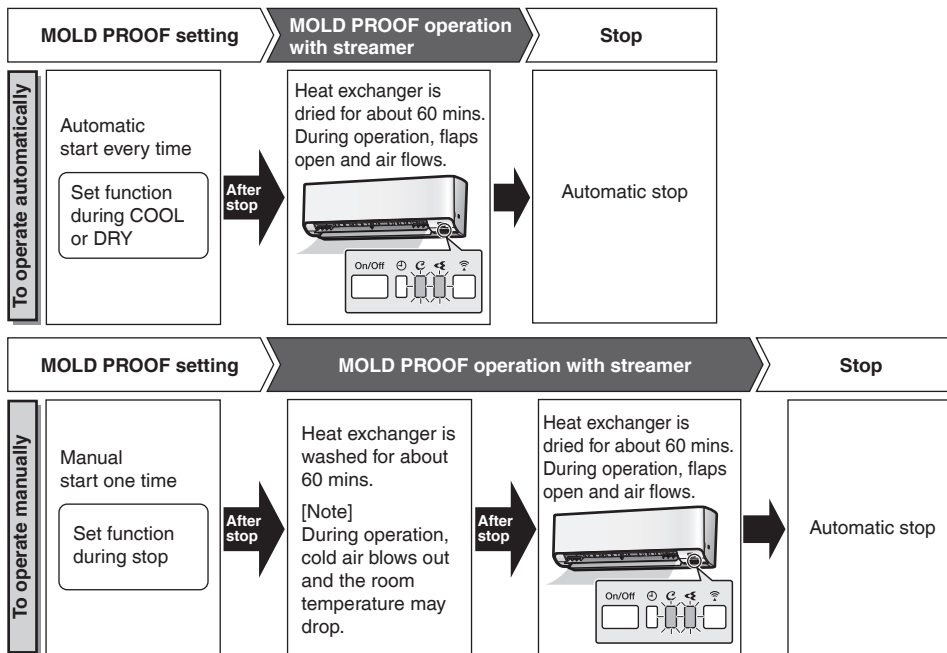
[To operate manually]

▶ Press  for about 2 seconds while the unit is not operating.

- “” blinks on the LCD, and the display returns to normal after a while.
- If the air conditioner is turned off for more than 3 minutes, press  once again and hold the button for 2 seconds to start MOLD PROOF operation.
- MOLD PROOF operation lamp lights green and FLASH STREAMER AIR CLEANING operation lamp lights up.



[Flow of function]



NOTE

■ Notes on MOLD PROOF setting

- When you want to stop MOLD PROOF operation midway, press **OFF**.
- This operation dries the inside of the air conditioner while streamer discharge is performed to reduce the development of mold and odour inside the air conditioner. But the function does not remove any adhered dust and mold.
- MOLD PROOF operation is not available when the unit is turned off using the OFF TIMER or turned off using a smartphone.

■ Notes on MOLD PROOF operation

- The flaps may sometimes close to increase the drying effect inside the air conditioner.
- MOLD PROOF operation may not be performed if the COOL or DRY operation time is short.
- If MOLD PROOF operation does not suit your preference, set operation to "Off". **Page 16**

■ Relation between MOLD PROOF operation and indoor unit lamps

Air conditioner	MOLD PROOF setting	MOLD PROOF lamp	STREAMER lamp
Operating (OPERATION lamp lights up)	MOLD PROOF is "ON"	Lights up	Depends on STREAMER setting
Not operating (OPERATION lamp goes off)	MOLD PROOF is "OFF"	Goes off	
Not operating (OPERATION lamp goes off)	MOLD PROOF is "ON"	Lights up	Lights up

FLASH STREAMER AIR CLEANING Operation

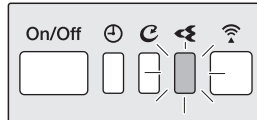


The streamer generates a high-speed electron stream with a high oxidizing power, reducing bad odours and viruses. Together with the air quality filter (enzyme blue with PM2.5) and the air filters, this function cleans the air in the room.

■ To start

Press ^{STREAMER} .

- “” appears on the LCD.
- FLASH STREAMER AIR CLEANING operation lamp lights green.



Display

■ To cancel

Press ^{STREAMER}  again.

- “” disappears from the LCD.

NOTE

■ What is streamer discharge?

- This is a type of plasma discharge comprising high-speed electrons with a high oxidative capacity that is released within the unit.

It decomposes odours and harmful gases.

(The high-speed electrons are generated and then adsorbed within the unit ensure your safety.)

■ Notes on FLASH STREAMER AIR CLEANING operation

- The streamer discharge may generate a fizzing sound, however this does not indicate a defect.
 - Do not block the air inlets of the streamer with any objects (**Fig.1**).
- Impaired airflow may result in insufficient performance or trouble with streamer operation.

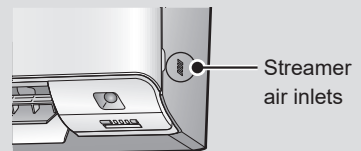


Fig. 1


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

Press  .

- “” appears on the LCD.
- The air conditioner can operated in ECONO operation combined with OUTDOOR UNIT QUIET operation.


■ To cancel

Press  again.

- “” disappears from the LCD.

NOTE

■ Note on OUTDOOR UNIT QUIET operation

- This function is available in COOL operation. (This is not available in FAN ONLY and DRY mode.)
- POWERFUL operation cannot be used together with ECONO/COMFORT AIRFLOW/OUTDOOR UNIT QUIET operation.
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.
- Even the operation is stopped by using the remote controller or the indoor unit ON/OFF switch using OUTDOOR UNIT QUIET operation, “” will remain on the remote controller display.
- This operation is performed with lower power and therefore may not provide a sufficient cooling effect.

CHILD LOCK operation





To prevent mishandling by children

Setting the CHILD LOCK disables all the buttons except the CHILD LOCK button. This function prevents children from operating the remote controller by mistake.

■ To start

- ▶ Press  for about 2 seconds.

- “” appears on the LCD and buttons except  is disabled.

■ To cancel

- ▶ Press  about 2 seconds again.

- “” disappears from the LCD.

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]

■ To set

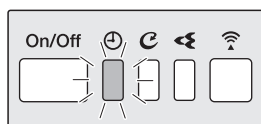
1. Press **OFF** .



• “OFF 1 HR.” appears on the LCD.

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

- Each pressing of button increases the time setting by 1 hour.
- Setting time can be increased to 12 hours maximum.
- The TIMER lamp lights orange.



Display

■ To cancel

1. Press **CANCEL** .

- “OFF 1 HR.” disappears from the LCD.
- The TIMER lamp goes off.

NOTE

■ NIGHT SET MODE

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

TIMER Operation



[ON TIMER operation]

■ To set

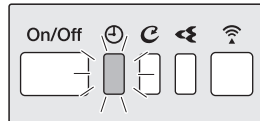
1. Press **ON** .



• “ON 1HR.” appears on the LCD.

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

- Each pressing of button increases the time setting by 1 hour.
- Setting time can be increased to 12 hours maximum.
- The TIMER lamp lights orange.



Display

■ To cancel

1. Press **CANCEL** .

- “ON 1HR.” disappears from the LCD.
- The TIMER lamp goes off.

[ON/OFF TIMER combination]

■ To combine ON TIMER and OFF TIMER

- A sample setting for combining the 2 timers is shown below.
- When setting while unit is operating.

(Example)

Turn off unit in the next 1 hr.) Combined
Turn on unit in the next 8 hr. (7 hr. after turn off)



- When setting while unit is stopped.

(Example)

Turn on unit in the next 2 hr.) Combined
Turn off unit in the next 5 hr. (3 hr. after turn on)



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.

Care and Cleaning

⚠ CAUTION

- Before cleaning, be sure to stop operation and turn the breaker OFF.
- When opening and closing the front panel, use a robust and stable stool and watch your step carefully.
- After cleaning, make sure that the front panel is securely fixed.

Units

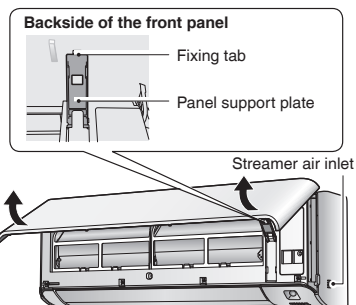
Wipe them with a dry soft cloth.



■ Front panel

1. Open the front panel.

- Open the front panel.
- Push the panel support plate up.
- Insert the panel support plate behind the fixing tab. The front panel will now be secured in the open position.

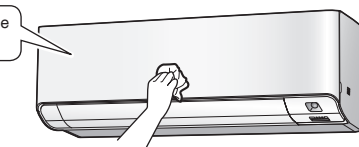


2. Clean the front panel.

If the front panel is dirty

- Wipe it with a soft damp cloth.
- Only neutral detergent may be used.

Wipe the back side of the front panel.



3. Close the front panel

- Lift up the front panel and panel support plate slightly to release the panel support plate from behind the fixing tab.
- Pull the panel support plate down, returning it to the original position.
- Close the front panel slowly.
Press the panel at both sides and in the central area.
- Make sure that the front panel is securely fixed.



NOTE

■ Notes on cleaning the front panel.

- Do not wash in water.
- Do not tear a heat insulation material.
- Do not press or rub a heat insulation material.

■ Note on Streamer air inlet

- Do not place objects around the indoor unit. Doing so may have an adverse influence on the performance, product quality, and life of the streamer.

Care and Cleaning

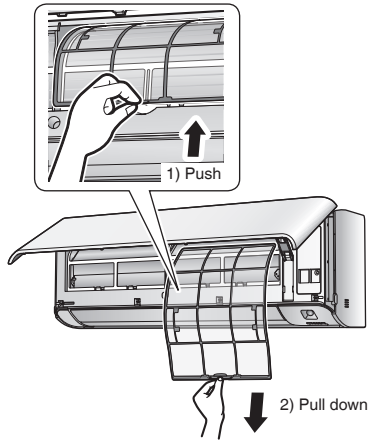
CAUTION

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

■ Air filter

1. Pull out the air filters.

- Open the front panel. **Page 23**
- Push the filter tab at the centre of each air filter a little upwards, then pull it down.



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

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



Use a vacuum cleaner to remove dust.



If the dust does not come off easily
Wash the air filters with neutral detergent thinned with lukewarm water, then dry them up in the shade.

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

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

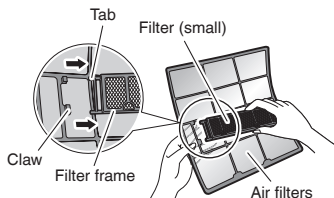
■ Filter (small)

* For the applicable filter type, please refer to **NOTE** on **Page 26**.

1. Open the front panel and pull out the air filter. **Page 23, 24**

2. Take off the filters. (small)

- Hold the recessed parts of the frame and unhook the 4 claws.
- Remove the filters from the tabs.



3. Clean or replace the filters.

[Cleaning]

Air quality filter (enzyme blue with PM2.5) [blue-white] or dust collection filter (PM 2.5) [white]

- Do not wash the filters as this will reduce their efficiency.
- It is recommended to replace it once **every 6 months**.

Deodorizing filter (enzyme blue) [blue] or titanium apatite deodorizing filter [blue-black]

3-1 Vacuum dust, and soak in lukewarm water or water for about 10 to 15 minutes if very dirty.

3-2 After washing, shake off remaining water and let them dry in the shade.

- This filter can be renewed by washing it with water once **every 6 months** and we recommend replacing it once **every 3 years**.
- Do not wring out the filter when removing water from it.

[Replacement]

Remove each filter from the front grille by detaching them from the 6 tabs and then install the new filters.

- Do not throw away the filter frame.
- Reuse the filter frame when replacing the filter.
- When attaching the filter, check that the filter is properly set in the tabs.



4. Set the filters as they were and close the front panel.

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

Notes on cleaning

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

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



Care and Cleaning

NOTE

- Operation with dirty filters:
 - 1) cannot deodorize the air.
 - 2) cannot clean the air.
 - 3) results in poor cooling.
 - 4) may cause odour.
- Dispose of old filters as non-flammable waste.
- To purchase the filters (**Table 1**) or to purchase the another type, contact the dealer where you bought the air conditioner.
- The method of cleaning and replacement of the filters may differ depending on the model. Refer to the label attached to the separately sold filters themselves.

Table 1

Item	Part No.
Air quality filter (enzyme blue with PM2.5) - without frame (set of 2)	BAFP094A43
Deodorizing filter (enzyme blue) - without frame (set of 2)	BAFP094A41
Dust collection filter (PM2.5) - without frame (set of 2)	BAFP046A41
Titanium apatite deodorizing filter - without frame (set of 2)	KAF970A46

We recommend periodical maintenance.

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

The maintenance cost must be borne by the user.

Check

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



Before a long idle period

1. Operate the “MOLD PROOF”. **Page 16**
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 the 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	Description / what to check
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.
The outdoor unit emits water.	<ul style="list-style-type: none"> 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.
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. We recommend that you have the indoor unit cleaned. Please consult your dealer. Due to streamer discharge, the air outlet may emit a slight odour as trace amounts of ozone are generated. However, the amount is negligible and is not harmful to your health.
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 about 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.
The operation stopped suddenly. (OPERATION lamp is on.)	<ul style="list-style-type: none"> For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes.
Remote controller does not work properly. <ul style="list-style-type: none"> No remote controller signals are displayed. The remote controller sensitivity is low. The display is low in contrast or blacked out. “” on the LCD is blinking and the remote controller cannot be operated. 	<ul style="list-style-type: none"> The batteries are dying and the remote controller is malfunctioning. Replace all the batteries with new size AAA.LR03 (alkaline) batteries. For details, refer to “To set the batteries” of this manual. Page 8 Battery power has run out. Replace both batteries at the same time with new size AAA.LR03 (alkaline) batteries. Leaving exhausted batteries in the remote controller can result in injury due to battery leakage, rupturing or heating, or lead to equipment failure. (Even when the “” is blinking, the OFF button remains functional.)

Troubleshooting

Case	Description / what to check
The sound of streamer discharge can no longer be heard.	<ul style="list-style-type: none"> If the airflow becomes weak, the streamer discharge stops.
The room temperature does not reach the set temperature.	<ul style="list-style-type: none"> If the air coming out of the air conditioner is blowing against a wall, the set temperature may not be reached correctly.
<ul style="list-style-type: none"> The unit does not receive signals from remote controller or has a limited operating range. Other electronic devices start operating. 	<ul style="list-style-type: none"> Signal communication may be disabled if an electronic-starter-type fluorescent lamp (such as inverter-type lamps) is in the room. Consult your dealer if that is in this case. The remote controller may not function correctly if the transmitter is exposed to direct sunlight. If the remote controller activates other electronic devices, move them away or consult your dealer.
The flaps do not start swinging immediately.	<ul style="list-style-type: none"> The air conditioner is adjusting the flaps position. The flaps will start moving soon.
The ON/OFF TIMER does not operate according to the settings.	<ul style="list-style-type: none"> Check if the ON/OFF TIMER correct. The actual length of timer can be differ from user setted time for approx. 10 minutes.
<p>A sound is heard.</p> <ul style="list-style-type: none"> A sound like a flow of water Ticking sound Clicking sound during operation or idle time Clopping sound 	<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 and heard when the water is pumped out from the air conditioner in cooling or drying operation. The refrigerant flows in the air conditioner even if the air conditioner is not working when the indoor units in other rooms are in operation. This sound is generated when the size of the air conditioner slightly expands or shrinks as a result of temperature changes. This sound is generated when the refrigerant control valves or the electrical parts operate. This sound is heard from the inside of the air conditioner when the exhaust fan is activated while the room doors are closed. Open the window or turn off the exhaust fan.
<p>Rotating machinery causes sound.</p> <ul style="list-style-type: none"> Sound is heard when the vertical swing flaps and the horizontal swing flaps move. 	<ul style="list-style-type: none"> When the air conditioner is operating in a quiet environment and the airflow rate of the indoor unit is set to Quiet Mode or Low Mode, the motion of the swing flaps may cause sound.
Air does not come out.	<ul style="list-style-type: none"> In COOL or DRY mode <ul style="list-style-type: none"> If COOL/DRY operation is started with airflow settings on "AUTO", the indoor unit will initially deodorise, which functions to suppress any internal odours. As a result, the indoor unit will not emit air immediately. (Wait for about 1 minute.)
The air conditioner continues operating even after COOL or DRY operation is stopped.	<ul style="list-style-type: none"> The air conditioner is operating in MOLD PROOF mode. When you want to stop MOLD PROOF operation midway, press OFF.

Check again.

Please check again before calling a repair person.

Case	Description / what to check
<p>The air conditioner does not operate.</p> <p>OPERATION lamp is off.</p> <p>OPERATION lamp blinks.</p>	<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? • Turn off the power with the circuit breaker and restart operation with the remote controller. If the OPERATION lamp is still blinking, check the error code and consult your dealer.
<p>Cooling effect is poor.</p>	<ul style="list-style-type: none"> • Are the air filters clean? • Is there anything blocking the air inlet or air outlet of the indoor unit or outdoor unit? • Is the temperature setting appropriate? • Are the windows and doors closed? • Are the air low rate and the air direction set appropriately? • Are outdoor ambient temperature not in operation range? • Is the unit set to the INTELLIGENT EYE/ECONO/MOLD PROOF/OUTDOOR UNIT QUIET mode? Page14-19
<p>Operation stops suddenly. (OPERATION lamp blinks.)</p>	<ul style="list-style-type: none"> • Are the air filters clean? • Is there anything blocking the air inlet or air outlet of the indoor unit or outdoor unit? • 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.
<p>An abnormal functioning happens during operation.</p>	<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.

■ Notes on the operating conditions

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

MODE	Operating conditions	If operation is continued out of this range
COOL / DRY	Outdoor temperature : 19.4-46°C Indoor temperature : 16-32°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.

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

Troubleshooting

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 neighboring area, stop operation and turn the breaker OFF for system protection.



■ Fault diagnosis by remote controller

- In case the air conditioner is malfunctioning, you can check the error code via the remote controller before consulting with service personnel and informing them of the malfunction code.

1. When **CANCEL** is held down for about 5 seconds, “00” blinks in the temperature display section.
2. Press **CANCEL** repeatedly until a continuous beep is produced.
 - The code indication changes as shown below, and notifies you with a long beep.

	CODE	MEANING
SYSTEM	00	NORMAL
	UA	INDOOR-OUTDOOR UNIT COMBINATION FAULT
	U0	REFRIGERANT SHORTAGE
	U2	DROP VOLTAGE OR MAIN CIRCUIT OVERVOLTAGE
	U4	FAILURE OF TRANSMISSION (BETWEEN INDOOR UNIT AND OUTDOOR UNIT)
INDOOR UNIT	A1	INDOOR PCB DEFECTIVENESS
	A5	HIGH PRESSURE CONTROL OR FREEZE-UP PROTECTOR
	A6	FAN MOTOR FAULT
	C4	FAULTY HEAT EXCHANGER TEMPERATURE SENSOR
	C9	FAULTY SUCTION AIR TEMPERATURE SENSOR
OUTDOOR UNIT	CC	FAULTY HUMIDITY SENSOR
	EA	COOLING-HEATING SWITCHING ERROR
	E1	CIRCUIT BOARD FAULT
	E5	OL STARTED
	E6	FAULTY COMPRESSOR START UP
	E7	DC FAN MOTOR FAULT
	F3	HIGH TEMPERATURE DISCHARGE PIPE CONTROL
	F6	HIGH PRESSURE CONTROL (IN COOLING)
	F8	OPERATION HALT DUE TO COMPRESSOR INTERNAL TEMPERATURE ABNORMALITY
	H0	SENSOR FAULT
	H6	OPERATION HALT DUE TO FAULTY POSITION DETECTION SENSOR
	H8	DC CURRENT SENSOR FAULT
	H9	FAULTY SUCTION AIR TEMPERATURE SENSOR
	J3	FAULTY DISCHARGE PIPE TEMPERATURE SENSOR
	J6	FAULTY HEAT EXCHANGER TEMPERATURE SENSOR
J8	FAULTY LIQUID PIPE TEMPERATURE SENSOR	
L3	ELECTRICAL PARTS HEAT FAULT	
L4	HIGH TEMPERATURE AT INVERTER CIRCUIT HEATSINK	
L5	OUTPUT OVERCURRENT	
P4	FAULTY INVERTER CIRCUIT HEATSINK TEMPERATURE SENSOR	

NOTE

- A short beep and 2 consecutive beeps indicate non-corresponding codes.
- To cancel the code display, hold **CANCEL** down for about 5 seconds. The code display also clears if no button is pressed for 1 minute.

Specifications

Air conditioner

Indoor unit model name		FTKM09WV2S	FTKM12WV2S	FTKM15WV2S
Outdoor unit model name		RKM09WV2S	RKM12WV2S	RKM15WV2S
Cooling capacity	kW(kcal/h)	2.7(2320)	3.6(3100)	4.4(3780)
Running current	A	3.3	4.8	5.3
Power consumption	W	690	1020	1120
Indoor unit	Dimensions	H (mm)	300	
		W (mm)	838	920
		D (mm)	240	
	Net weight	kg	11	13
Outdoor unit	Dimensions	H (mm)	550	595
		W (mm)	675	845
		D (mm)	284	300
	Net weight	kg	23	24
<p>Note : Cooling capacity and electrical performance are based on the following conditions: Indoor temperature: 27°CDB, 19°CWB Outdoor temperature: 35°CDB, 24°CWB Fan speed: High Power supply: 220V, 50Hz</p>				

Air conditioner

Indoor unit model name		FTKM18WV2S	FTKM24WV2S	
Outdoor unit model name		RKM8WV2S	RKM24WV2S	
Cooling capacity	kW(kcal/h)	5.3(4560)	7.1(6110)	
Running current	A	6.8	10.3	
Power consumption	W	1430	2140	
Indoor unit	Dimensions	H (mm)	300	
		W (mm)	1100	
		D (mm)	240	
	Net weight	kg	15	
Outdoor unit	Dimensions	H (mm)	595	
		W (mm)	845	
		D (mm)	300	
	Net weight	kg	34	36
<p>Note : Cooling capacity and electrical performance are based on the following conditions: Indoor temperature: 27°CDB, 19°CWB Outdoor temperature: 35°CDB, 24°CWB Fan speed: High Power supply: 220V, 50Hz</p>				

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