

**DAIKIN**

DAIKIN ROOM AIR CONDITIONER

# OPERATION MANUAL



Enjoy year-round comfort.

## MODELS

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**FTX20KV1B**

**FTX25KV1B**

**FTX35KV1B**

**FTX50KV1B**

**FTX60KV1B**

# Features

## Enhanced comfort and energy savings



### COMFORT AIRFLOW

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



### ECONO

This function enables efficient operation by limiting the maximum power consumption. It is useful when using the air conditioner and other electrical devices simultaneously on a shared electrical circuit. ▶Page 16






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

# Safety Precautions


- Keep this manual where the user can easily find it.
- Read the precautions in this manual carefully before operating the unit.
- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.
- Sound pressure level is less than 70 dB (A).
- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.


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

 Never attempt.	 Be sure to follow the instructions.	 Be sure to establish an earth connection.
-------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

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


## WARNING

-  • In order to avoid fire, explosion or injury, do not operate the unit when harmful gases (e.g. flammable or corrosive) are detected near the unit.
- Be aware that prolonged, direct exposure to cool or warm air from the air conditioner, or to air that is too cool or too warm can be harmful to your physical condition and health.
- Do not place objects, including rods, your fingers, etc., in the air inlet or outlet. Product damage or personal injury may result due to contact with the air conditioner's high-speed fan blades.
- Do not attempt to repair, dismantle, reinstall or modify the air conditioner yourself as this may result in water leakage, electric shocks or fire hazards.
- Do not use flammable spray near the air conditioner, or otherwise fire may result.
- To avoid electric shocks, do not operate with wet hands.

-  • Beware of fire in case of refrigerant leakage. If the air conditioner is not operating correctly, i.e. not generating cool or warm air, refrigerant leakage could be the cause. Consult your dealer for assistance. The refrigerant within the air conditioner is safe and normally does not leak.  
However, in the event of a leakage, contact with a naked burner, heater or cooker may result in generation of noxious gas. Do not use the air conditioner until a qualified service person confirms that the leakage has been repaired.
- Do not attempt to install or repair the air conditioner yourself. Improper workmanship may result in water leakage, electric shocks or fire hazards. Please contact your local dealer or qualified personnel for installation and maintenance work.
- When the air conditioner is malfunctioning (giving off a burning odour, etc.) turn off power to the unit and contact your local dealer. Continued operation under such circumstances may result in a failure, electric shocks or fire hazards.
- Be sure to install an earth leakage circuit breaker. Failure to install the earth leakage circuit breaker may result in electric shocks or fire.

-  • Be sure to earth the unit. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.

## CAUTION

-  • Do not use the air conditioner for purposes other than those for which it is intended. Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.
- Do not expose plants or animals directly to airflow from the unit as this may cause adverse effects.
- Do not place appliances that produce naked flames in places exposed to the airflow from the unit as this may impair combustion of the burner.
- Do not block air inlets nor outlets. Impaired airflow may result in insufficient performance or trouble.
- 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.

# Safety Precautions



- Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units. Under certain conditions, condensation on the main unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned.
- After prolonged use, check the unit stand and its mounts for damage. If they are left in a damaged condition, the unit may fall and cause injury.
- To avoid injury, do not touch the air inlet or aluminium fins of the indoor or outdoor units.
- The appliance is not intended for use by unattended young children or infirm persons. Impairment of bodily functions and harm to health may result.
- Children should be supervised to ensure that they do not play with the unit or its remote controller. Accidental operation by a child may result in impairment of bodily functions and harm health.
- Avoid impacts to the indoor and outdoor units, or otherwise product damage may result.
- Do not place flammable items, such as spray cans, within 1m of the air outlet.  
The spray cans may explode as a result of hot air from the indoor or outdoor units.
- Be careful not to let pets urinate on the air conditioner. Urination on the air conditioner may result in electric shocks or fire.
- Do not wash the air conditioner with water, as this may result in electric shocks or fire.
- Do not place water containers (vases etc.) above the unit, as this may result in electric shocks or fire hazards.



- To avoid oxygen depletion, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.
- Before cleaning, be sure to stop unit operation, turn off the circuit breaker or remove the power cord. Otherwise, an electric shock and injury may result.
- Only connect the air conditioner to the specified power supply circuit. Power supplies other than the one specified may result in electric shocks, overheating and fires.
- Arrange the drain hose to ensure smooth drainage. Imperfect drainage may cause wetting of the building, furniture etc.
- Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once in the unit, such animals can cause malfunctions, smoke or fire when making contact with electrical parts.
- Do not place objects around the indoor unit.  
Doing so may have an adverse influence on the performance, product quality, and life of the air conditioner.
- This appliance is not intended to be used by persons with reduced physical, sensory or mental capabilities, or with lack of operation knowledge, unless they have been given supervision or instruction concerning the appliance use by person responsible for their safety.
- Keep out of children's reach to ensure that they do not play with the appliance.

## Installation site.

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

## Consider nuisance to your neighbours from noises.

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

## Electrical work.

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

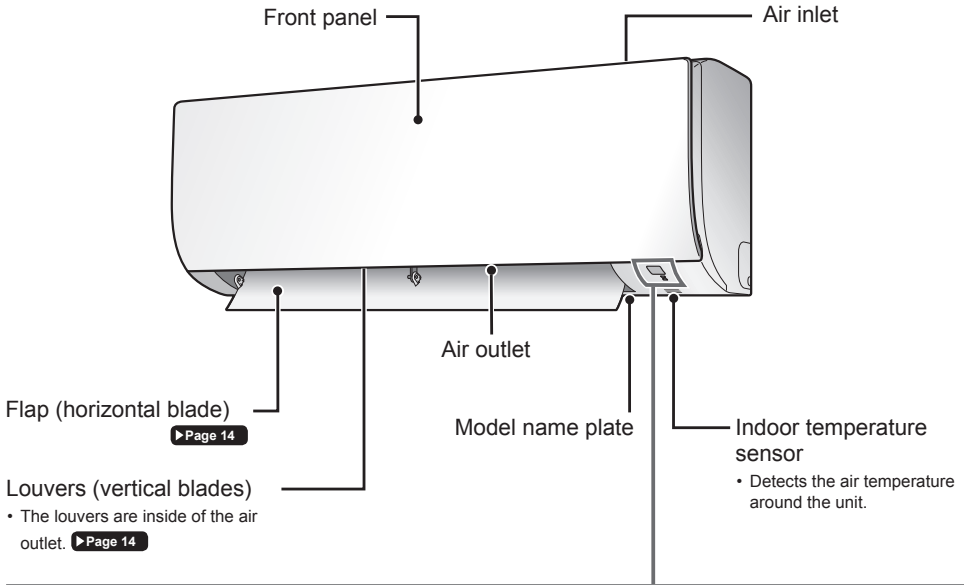
## System relocation.

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

# Names of Parts

FTX20KV1B / FTX25KV1B / FTX35KV1B

## Indoor Unit

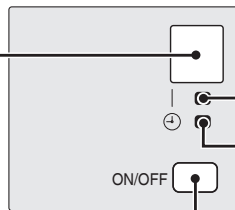


## Display

### Signal receiver

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

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



### Indoor unit ON/OFF switch

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

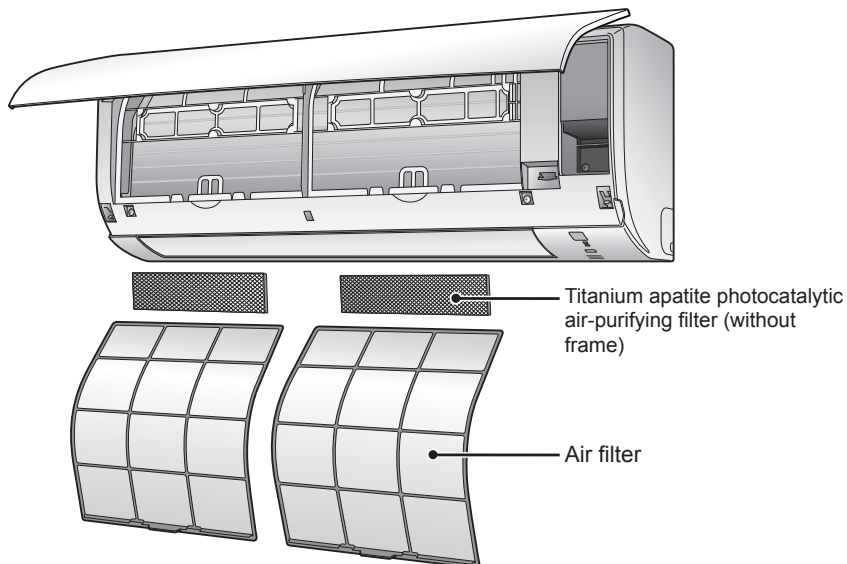
Mode	Temperature setting	Airflow rate
AUTO	25°C	AUTO

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

# Names of Parts

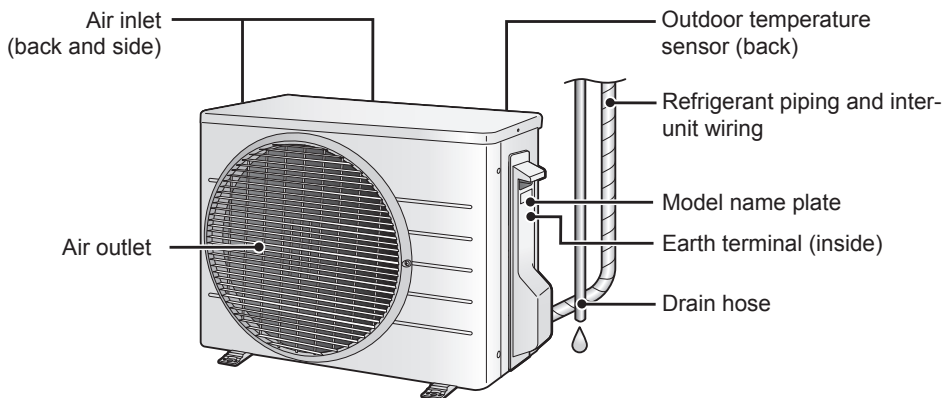
FTX20KV1B / FTX25KV1B / FTX35KV1B

- Open the front panel



## Outdoor Unit

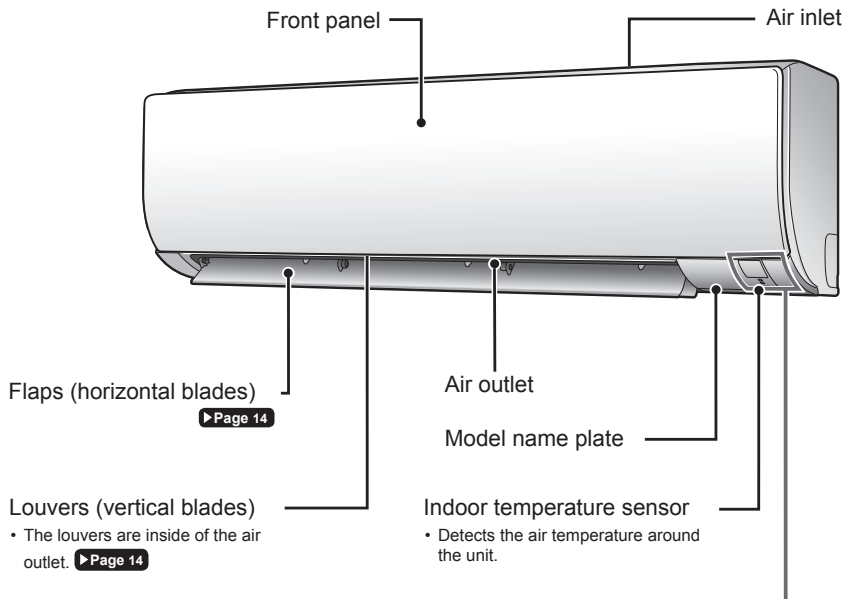
- The appearance of the outdoor unit may differ between different models.



# Names of Parts

FTX50KV1B / FTX60KV1B

## Indoor Unit

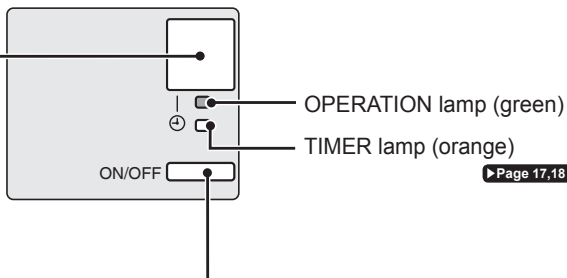


## Display

### Signal receiver

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

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



### Indoor unit ON/OFF switch

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

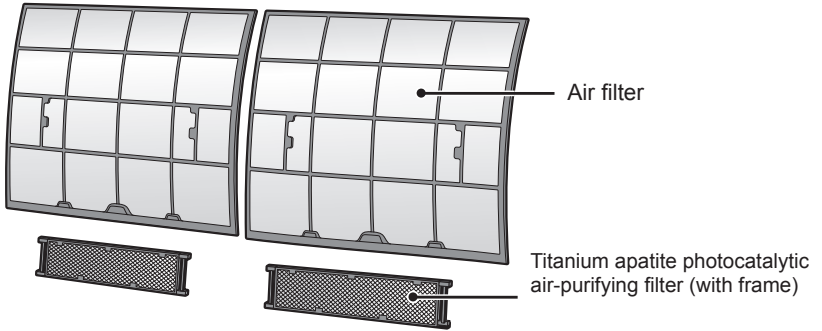
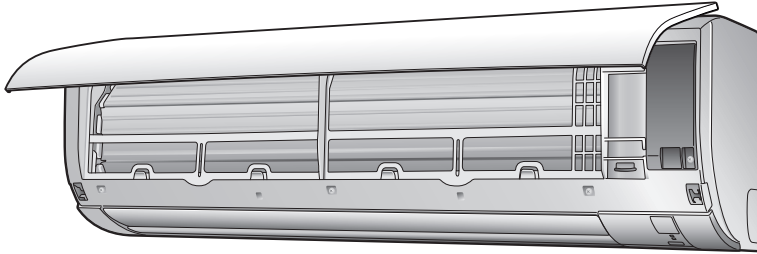
Mode	Temperature setting	Airflow rate
AUTO	25°C	AUTO

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

# Names of Parts

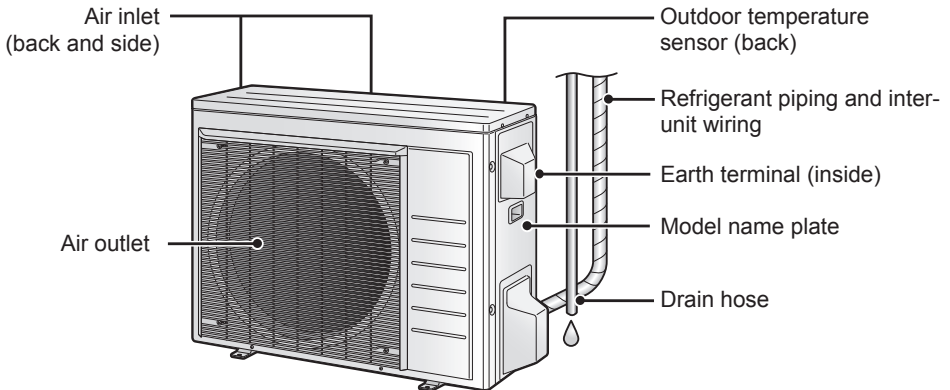
FTX50KV1B / FTX60KV1B

- Open the front panel



## Outdoor Unit

- The appearance of the outdoor unit may differ between different models.



# Names of Parts

## Remote Controller

### Display (LCD)

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

### AUTO button

- Automatically selects an appropriate operation mode (COOL or HEAT) based on the indoor temperature and starts the operation. ▶ Page 11

### Direct operation buttons

- Starts the COOL, DRY, HEAT or FAN ONLY operation. ▶ Page 11

### TEMPERATURE adjustment button

- Changes the temperature setting. ▶ Page 12

### COMFORT button

- COMFORT AIRFLOW operation. ▶ Page 15

### POWERFUL button

- POWERFUL operation. ▶ Page 15

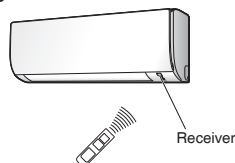
### OFF TIMER button (NIGHT SET mode)

▶ Page 18

### ON TIMER button

▶ Page 17

### Signal transmitter



- To use the remote controller, aim the transmitter at the indoor unit. If there is anything blocking the signals between the unit and the remote controller, such as a curtain, the unit may not operate.
- The maximum transmission distance is about 7m.

### OFF button

- Stops the operation. ▶ Page 12

### FAN setting button

- Selects the airflow rate setting. ▶ Page 13

### ECONO button

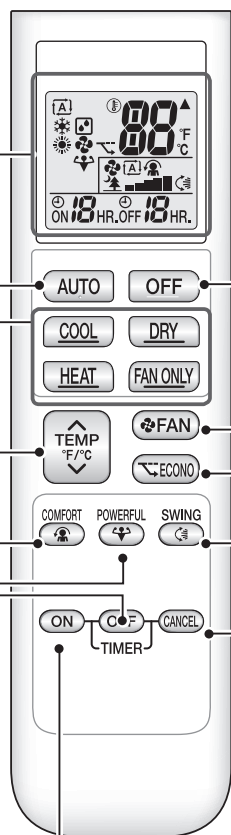
- ECONO operation. ▶ Page 16

### SWING button

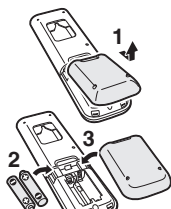
- Adjusts the airflow direction. ▶ Page 14

### TIMER CANCEL button

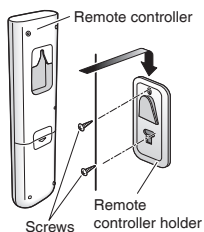
- Cancels the timer setting. ▶ Page 17,18



# Preparation Before Operation



Position  $\oplus$  and  $\ominus$  correctly!



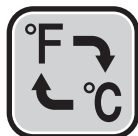
## To insert the batteries

1. Remove the back cover by sliding and then slightly lifting it.
2. Insert 2 dry batteries AAA.LR03 (alkaline).
3. Replace the back cover.

## To fix the remote controller holder to a wall

1. Choose a place where the signals reach the unit.
2. Attach the holder to a wall, a pillar, or similar location with the screws supplied with the holder.
3. Hang the remote controller on the remote controller holder.

## Fahrenheit/Celsius display switch



- Press  and  (TIMER button) simultaneously for about 5 seconds.

- The temperature will be displayed in Celsius when it is presently displayed in Fahrenheit, and vice versa.
- The switch operation is only possible when the temperature is being displayed.

## Turn on the circuit breaker

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

## NOTE

### Notes on batteries

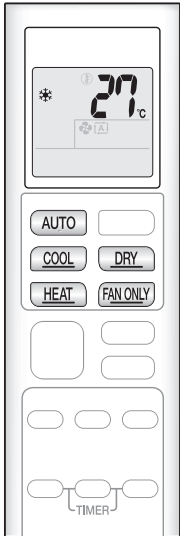
- When replacing the batteries, use batteries of the same type, and replace both old batteries together.
- The batteries will last for about 1 year. If the remote controller display begins to fade and the possible transmission range becomes shorter within a year, however, replace both batteries with new, size AAA.LR03 (alkaline).
- The batteries supplied with the remote controller are for initial operation. The batteries may run out in less than 1 year.

### Note on remote controller

- Do not drop the remote controller. Do not get it wet.



# AUTO · COOL · DRY · HEAT · FAN ONLY Operation



The air conditioner operates with the operation mode of your choice.

## To start operation

### AUTO operation

- To automatically select an appropriate temperature and operation mode.

Press **AUTO** .



### COOL operation

- To lower the temperature.

Press **COOL** .



### DRY operation

- To lower the humidity.

Press **DRY** .



### HEAT operation

- To raise the temperature.

Press **HEAT** .



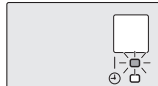
### FAN ONLY operation

- To circulate air in the room.

Press **FAN ONLY** .



- The OPERATION lamp lights green.



Display

## NOTE

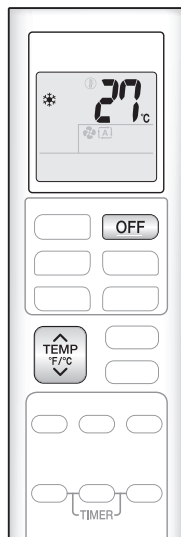
### Notes on AUTO operation

- In AUTO operation, the system selects an appropriate operation mode (COOL or HEAT) based on the indoor temperature and starts the operation.
- The system automatically reselects setting at a regular interval to bring the indoor temperature to the user-setting level.

### Note on DRY operation

- Eliminates humidity while maintaining the indoor temperature as much as possible. It automatically controls temperature and airflow rate, so manual adjustment of these functions is unavailable.

# AUTO · COOL · DRY · HEAT · FAN ONLY Operation



## To stop operation

Press **OFF** .

- The OPERATION lamp goes off.

## To change the temperature setting

Press **TEMP F/°C** .

- Press **▲** to raise the temperature and press **▼** to lower the temperature.

COOL operation	HEAT operation	AUTO operation	DRY or FAN ONLY operation
18 – 32°C	10 – 30°C	18 – 30°C	The temperature setting cannot be changed.

## Tips for saving energy

### Keeping the temperature setting at a moderate level helps save energy.

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

### Cover windows with a blind or a curtain.

- Blocking sunlight and air from outdoors increases the cooling (heating) effect.

### Keep the air filters clean.

- Clogged air filters cause inefficient operation and waste energy. Clean them once every 2 weeks. **▶ Page 20, 23**

### If you are not going to use the air conditioner for a long period, for example in spring or autumn, turn off the circuit breaker.

- The air conditioner always consumes a small amount of electricity even while it is not operating.





# 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** changes the airflow rate setting in sequence.



- When the airflow is set to "🌳", quiet operation starts and noise from the indoor unit will become quieter.
- In the quiet operation mode, the airflow rate is set to a weak level.

AUTO, COOL, HEAT and FAN ONLY operation	DRY operation
	The airflow rate setting cannot be changed.

## NOTE

### Note on airflow rate setting

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



## Adjusting the Airflow Direction

You can adjust the airflow direction to increase your comfort.


### CAUTION

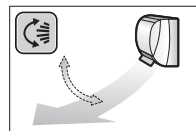
- Always use a remote controller to adjust the angles of the flap. Moving the flap forcibly by hand may cause a malfunction.
- Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at a high speed.

#### To start auto swing

##### Up and down airflow direction


Press  .

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



#### To set the flap at the desired position

- This function is effective while the flap is in auto swing mode.

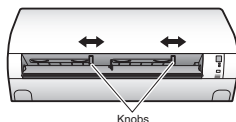
Press  when the flap reaches the desired position.

- “” disappears from the LCD.

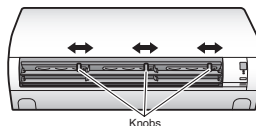
#### To adjust the louvers at desired position

Hold the knobs and move the louvers (vertical blades).

FTX20KV1B / FTX25KV1B /  
FTX35KV1B



FTX50KV1B / FTX60KV1B

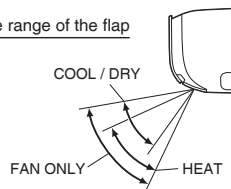


### NOTE

#### Notes on airflow direction setting

- The movable range of the flap varies according to the operation mode.
- The flap will stop at the upper position when the airflow rate is changed to low during the up and down swing setting.

#### Movable range of the flap





## COMFORT AIRFLOW Operation



The air direction and flow rate are adjusted so that the air will not blow directly at people in the room.

### To start COMFORT AIRFLOW operation

Press  .


- “” is displayed on the LCD.

	COOL and DRY operation	HEAT operation
Flap direction	Goes up	Goes down
Airflow rate	AUTO	

- Not available in FAN ONLY mode.

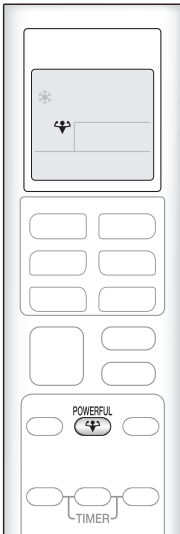
### To cancel COMFORT AIRFLOW operation

Press  again.

- “” disappears from the LCD.
- The flap will return to the memory position from before COMFORT AIRFLOW operation.





## POWERFUL Operation



POWERFUL operation quickly maximizes the cooling (heating) effect in any operation mode. In this mode, the air conditioner operates at maximum capacity.

### To start POWERFUL operation

Press  .

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

### To cancel POWERFUL operation

Press  again.

- “” disappears from the LCD.



## ECONO Operation




ECONO operation enables efficient operation by limiting the maximum power consumption.

This function is useful to prevent the circuit breaker from tripping when the unit operates alongside other appliances on the same circuit.

### To start ECONO operation

Press  .

- “” is displayed on the LCD.
- Not available in FAN ONLY mode.

### To cancel ECONO operation

Press  again.



- “” disappears from the LCD.

## NOTE



### Note on COMFORT AIRFLOW operation

- If the up and down airflow direction is selected, the COMFORT AIRFLOW operation will be cancelled.

### 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, HEAT and AUTO operation  
To maximize the cooling (heating) effect, the capacity of outdoor unit increases and the airflow rate becomes fixed at the maximum setting. The temperature setting 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.

### Notes on ECONO operation

- Pressing  causes the settings to be cancelled, and “” disappears from the LCD.
- If the power consumption level is already low, switching to ECONO operation will not reduce the power consumption.

### Some useful functions can be used together.

COMFORT AIRFLOW + ECONO	Available
POWERFUL + COMFORT AIRFLOW	Not available*
POWERFUL + ECONO	Not available*

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



# ON/OFF TIMER Operation



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

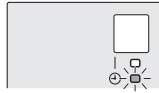
## To use ON TIMER operation

Press **ON**.



"**ON 1HR.**" is displayed on the LCD.

- Each pressing of **ON** advances the time setting by 1 hour. The time can be set between 1 and 12 hours.
- The TIMER lamp lights orange.



Display

## To cancel ON TIMER operation

Press **CANCEL**.

- "**ON 1HR.**" disappears from the LCD.
- The TIMER lamp goes off.

### NOTE

In the following cases, set the timer again.

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

# ON/OFF TIMER Operation

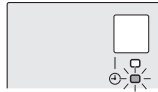


## To use OFF TIMER operation

Press **OFF** .



- Each pressing of **OFF** advances the time setting by 1 hour. The time can be set between 1 and 12 hours.
- The TIMER lamp lights orange.



Display

## To cancel OFF TIMER operation

Press **CANCEL** .

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

## To combine ON TIMER and OFF TIMER operation

- A sample setting for combining the 2 timers is shown below.
- "ON" and "OFF" are displayed on the LCD.

[Example]



**When setting while the unit is operating**

- Stops the unit 1 hour later and starts it 7 hours after that.



**When setting while the unit is stopped**

- Starts the unit 2 hours later and stops it 3 hours after that.

## NOTE

### NIGHT SET mode

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

# Care and Cleaning

## FTX20KV1B / FTX25KV1B / FTX35KV1B

### ⚠ CAUTION

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

### ■ Quick reference

#### Cleaning parts

##### Front panel

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

If dirty



##### Air filter

- Vacuum dust or wash the filter.

Once every 2 weeks

▶ Page 20

##### Indoor unit, outdoor unit and remote controller

- Wipe them with a soft cloth.

If dirty

##### Titanium apatite photocatalytic air-purifying filter (without frame)

- Vacuum dust or replace the filter.

[Cleaning]

Once every 6 months

▶ Page 21

[Replacement]

Once every 3 years

▶ Page 21

### NOTE

For cleaning, do not use any of the following:

- Water hotter than 40°C
- Volatile liquid such as benzene, petrol and thinner
- Polishing compounds
- Rough materials such as a scrubbing brush



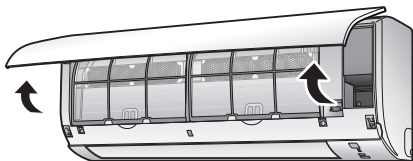
# Care and Cleaning

FTX20KV1B / FTX25KV1B / FTX35KV1B

## ■ Air filter

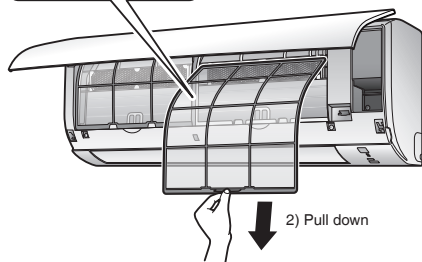
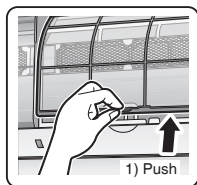
### 1. Open the front panel.

- Hold the front panel by the sides and open it.



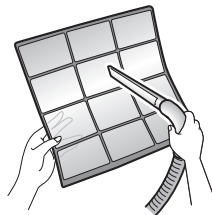
### 2. Pull out the air filters.

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



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

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



#### If the dust does not come off easily

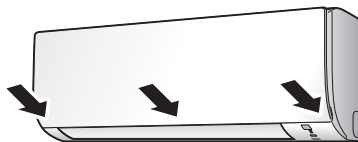
- Wash the air filters with neutral detergent thinned with lukewarm water, then dry them up in the shade.



### 4. Reattach the filters.

### 5. Close the front panel slowly.

- Press the panel at both sides and the center.



- Make sure that the front panel is securely fixed.

# Care and Cleaning

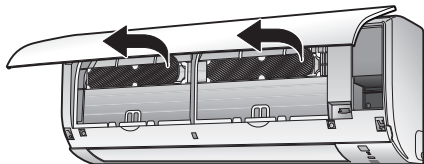
FTX20KV1B / FTX25KV1B / FTX35KV1B

## ■ Titanium apatite photocatalytic air-purifying filter

**1. Open the front panel and pull out the air filters.** ▶Page 20

**2. Take off the titanium apatite photocatalytic air-purifying filters.**

- Remove the filters from the tabs.



**3. Clean or replace the titanium apatite photocatalytic air-purifying filters.**

[Cleaning]

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

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



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

- Do not wring out the filter to remove water from it.

[Replacement]

Remove the filter from the tabs and prepare a new one.



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

**4. Insert the titanium apatite photocatalytic air-purifying filters as they were.**

- When attaching the filter, check that the filter is properly set in the tabs.

**5. Reattach the filters.** ▶Page 20

**6. Close the front panel slowly.** ▶Page 20

## NOTE

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

Item	Titanium apatite photocatalytic air-purifying filter 1 set
Part No.	KAF970A46

# Care and Cleaning

## FTX50KV1B / FTX60KV1B

### ⚠ CAUTION

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

### ■ Quick reference

#### Cleaning parts

#### Front panel

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

If dirty



#### Air filter

- Vacuum dust or wash the filter.

Once every 2 weeks

▶ Page 23

#### Indoor unit, outdoor unit and remote controller

- Wipe them with a soft cloth.

If dirty

#### Titanium apatite photocatalytic air-purifying filter (with frame)

- Vacuum dust or replace the filter.

[Cleaning]

Once every 6 months

▶ Page 24

[Replacement]

Once every 3 years

▶ Page 24

### NOTE

For cleaning, do not use any of the following:

- Water hotter than 40°C
- Volatile liquid such as benzene, petrol and thinner
- Polishing compounds
- Rough materials such as a scrubbing brush



# Care and Cleaning

## FTX50KV1B / FTX60KV1B

### ■ Air filter

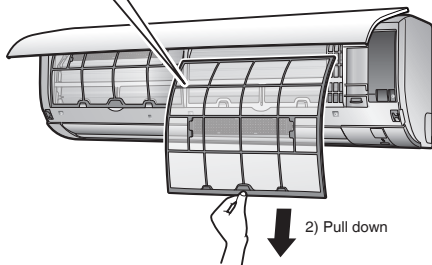
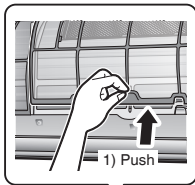
#### 1. Open the front panel.

- Hold the front panel by the sides and open it.



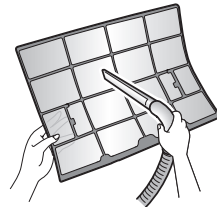
#### 2. Pull out the air filters.

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



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

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



#### If the dust does not come off easily

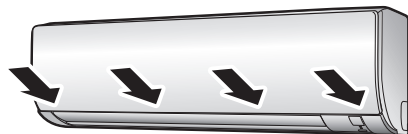
- Wash the air filters with neutral detergent thinned with lukewarm water, then dry them up in the shade.
- Be sure to remove the titanium apatite photocatalytic air-purifying filter. Refer to "Titanium apatite photocatalytic air-purifying filter" on the next page.



#### 4. Reattach the filters.

#### 5. Close the front panel slowly.

- Press the front panel at both sides and in the central area.



- Make sure that the front panel is securely fixed.

# Care and Cleaning

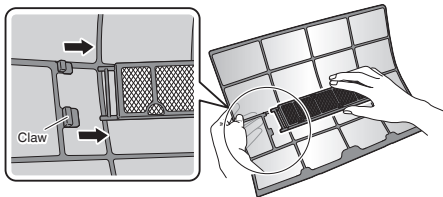
## FTX50KV1B / FTX60KV1B

### ■ Titanium apatite photocatalytic air-purifying filter

#### 1. Open the front panel and pull out the air filters. ▶Page 23

#### 2. Take off the titanium apatite photocatalytic air-purifying filters.

- Hold the recessed parts of the frame and unhook the 4 claws.



#### 3. Clean or replace the titanium apatite photocatalytic air-purifying filters.

##### [Cleaning]

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

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



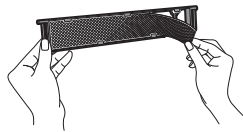
##### 3-2 After washing, shake off remaining water and let them dry in the shade.

- Do not wring out the filter to remove water from it.

##### [Replacement]

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

- Do not throw away the filter frame. Reuse the filter frame when replacing the titanium apatite photocatalytic air-purifying filter.



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

#### 4. Insert the titanium apatite photocatalytic air-purifying filters as they were.

- When attaching the filter, check that the filter is properly set in the tabs.

#### 5. Reattach the filters. ▶Page 23

#### 6. Close the front panel slowly. ▶Page 23

### NOTE

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

Item	Titanium apatite photocatalytic air-purifying filter 1 set
Part No.	KAF970A46

# Care and Cleaning

## All models

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- Prior to a long period of non-use

### 1. Operate the FAN ONLY mode for several hours to dry out the inside.

- Press **FAN ONLY**.

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

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

- 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 qualified contractor in addition to regular cleaning by the user.
- For qualified contractor maintenance, please contact the dealer where you bought the air conditioner.

# FAQ

## Indoor unit

### The flap does not start swinging immediately.

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

### The air conditioner stops generating airflow during HEAT operation.

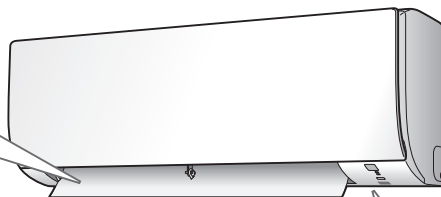
- Once the set temperature is reached, the airflow rate is reduced and operation stopped in order to avoid generating a cool airflow. Operation will resume automatically when the indoor temperature falls.

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

- The outdoor unit is defrosting. HEAT operation starts after the frost on the outdoor unit has been removed. This can take about 4 to 12 minutes.

### Operation does not start soon.

- When **AUTO** or any direct operation 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.



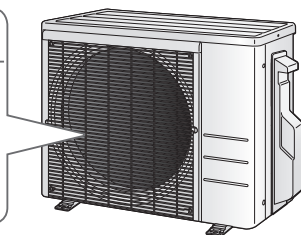
### Different sounds are heard.

- **A sound like flowing water**
  - This sound is generated because the refrigerant in the air conditioner is flowing.
  - This is a pumping sound of the water in the air conditioner and can be heard when the water is pumped out from the air conditioner during COOL or DRY operation.
- **Blowing sound**
  - This sound is generated when the flow of the refrigerant in the air conditioner is switched over.
- **Ticking sound**
  - This sound is generated when the cabinet and frame of the air conditioner slightly expand or shrink as a result of temperature changes.
- **Whistling sound**
  - This sound is generated when refrigerant flows during defrosting operation.
- **Clicking sound during operation or idle time**
  - This sound is generated when the refrigerant control valves or the electrical parts operate.
- **Clopping sound**
  - This sound is heard from the inside of the air conditioner when the exhaust fan is activated while the room doors are closed. Open the window or turn off the exhaust fan.

## Outdoor unit

### The outdoor unit emits water or steam.

- **In HEAT operation**
  - The frost on the outdoor unit melts into water or steam when the air conditioner is in defrosting operation.
- **In COOL or DRY operation**
  - Moisture in the air condenses into water on the cool surface of the outdoor unit piping and drips.



# Troubleshooting

Before making an inquiry or a request for repair, please check the following.  
If the problem persists, consult your dealer.



## Not a problem

This case is not a problem.



## Check

Please check again before requesting repairs.

### The air conditioner does not operate

Case	Description / what to check
<b>OPERATION lamp is off.</b>	<ul style="list-style-type: none"> <li> • Has the circuit breaker been tripped or the fuse blown?</li> <li>• Is there a power failure?</li> <li>• Are batteries set in the remote controller?</li> </ul>
<b>OPERATION lamp is blinking.</b>	<ul style="list-style-type: none"> <li> • 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. <span style="float: right;">▶Page 30</span></li> </ul>

### The air conditioner suddenly stops operating

Case	Description / what to check
<b>OPERATION lamp is on.</b>	<ul style="list-style-type: none"> <li> • To protect the system, the air conditioner may stop operating after sudden large voltage fluctuations. It automatically resumes operation in about 3 minutes.</li> </ul>
<b>OPERATION lamp is blinking.</b>	<ul style="list-style-type: none"> <li> • Is there anything blocking the air inlet or air outlet of the indoor unit or outdoor unit? Stop operation and after turning off the circuit breaker, remove the obstruction. Then restart operation with the remote controller. If the OPERATION lamp is still blinking, check the error code and consult your dealer. <span style="float: right;">▶Page 30</span></li> </ul>

### The air conditioner does not stop operating

Case	Description / what to check
<b>The air conditioner continues operating even after operation is stopped.</b>	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>■ <b>Immediately after the air conditioner is stopped</b> <ul style="list-style-type: none"> <li>• The outdoor unit fan continues rotating for about another 1 minute to protect the system.</li> </ul> </li> <li>■ <b>While the air conditioner is not in operation</b> <ul style="list-style-type: none"> <li>• When the outdoor temperature is high, the outdoor unit fan may start rotating to protect the system.</li> </ul> </li> </ul> </li> </ul>

### The room does not cool down / warm up

Case	Description / what to check
<b>Air does not come out.</b>	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>■ <b>In HEAT operation</b> <ul style="list-style-type: none"> <li>• The air conditioner is warming up. Wait for about 1 to 4 minutes.</li> <li>• During defrosting operation, hot air does not flow out of the indoor unit.</li> </ul> </li> </ul> </li> </ul>
<b>Air does not come out / Air comes out.</b>	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>■ <b>Is the airflow rate setting appropriate?</b> <ul style="list-style-type: none"> <li>• Is the airflow rate setting low, such as "Indoor unit quiet" or "Airflow rate 1"? Increase the airflow rate setting.</li> </ul> </li> <li>■ <b>Is the set temperature appropriate?</b></li> <li>■ <b>Is the adjustment of the airflow direction appropriate?</b></li> </ul> </li> </ul>
<b>Air comes out.</b>	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• Is there any furniture directly under or beside the indoor unit?</li> <li>• Is the air conditioner in ECONO operation? <span style="float: right;">▶Page 16</span></li> <li>• Are the air filters dirty?</li> <li>• Is there anything blocking the air inlet or air outlet of the indoor unit or outdoor unit?</li> <li>• Is a window or door open?</li> <li>• Is an exhaust fan turning?</li> </ul> </li> </ul>

# Troubleshooting

## Mist comes out

Case	Description / what to check
Mist comes out of the indoor unit.	<input checked="" type="checkbox"/> • This happens when the air in the room is cooled into mist by the cold airflow during COOL or other operation.

## Remote controller

Case	Description / what to check
The unit does not receive signals from the remote controller or has a limited operating range.	<input checked="" type="checkbox"/> • The batteries may be exhausted. Replace both batteries with new dry batteries AAA.LR03 (alkaline). For details, refer to "Preparation Before Operation". ▶Page 10 <input checked="" type="checkbox"/> • 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 the case. <input checked="" type="checkbox"/> • The remote controller may not function correctly if the transmitter is exposed to direct sunlight.
LCD is faint, is not working, or the display is erratic.	<input checked="" type="checkbox"/> • The batteries may be exhausted. Replace both batteries with new dry batteries AAA.LR03 (alkaline). For details, refer to "Preparation Before Operation". ▶Page 10
Other electric devices start operating.	<input checked="" type="checkbox"/> • If the remote controller activates other electric devices, move them away or consult your dealer.

## Air has an odor

Case	Description / what to check
The air conditioner gives off an odor.	<input checked="" type="checkbox"/> • The room odor absorbed in the unit is discharged with the airflow. We recommend you to have the indoor unit cleaned. Please consult your dealer.

## Others

Case	Description / what to check
The air conditioner suddenly starts behaving strangely during operation.	<input type="checkbox"/> • The air conditioner may malfunction due to lightning or radio. If the air conditioner malfunctions, turn off the power with the circuit breaker and restart the operation with the remote controller.

### Notes on the operating conditions

- If operation continues under any conditions other than those listed in the table,
  - A safety device may activate to stop the operation.
  - Dew may form on the indoor unit and drip from it when COOL or DRY operation is selected.

Mode	Operating conditions
COOL / DRY	Outdoor temperature: -10 – 46°C Indoor temperature: 18 – 32°C Indoor humidity: 80% max.
HEAT	Outdoor temperature: -15 – 24°C Indoor temperature: 10 – 30°C

# Troubleshooting

■ Call the service shop immediately

## WARNING

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

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

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

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

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

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

Turn the breaker off and call the service shop.



### ■ After a power failure

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

### ■ Lightning

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

## ■ Disposal requirements



Your product and the batteries supplied with the controller are marked with this symbol. This symbol means that electrical and electronic products and batteries shall not be mixed with unsorted household waste. For batteries, a chemical symbol can be printed beneath the symbol. This chemical symbol means that the battery contains a heavy metal above a certain concentration. Possible chemical symbols are:

■Pb: lead (>0.004%)

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

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

By ensuring correct disposal, you will help to prevent potential negative consequences for the environment and human health.

Please contact the installer or local authority for more information. Dismantling of the unit, handling of the refrigerant, oil and other parts, should be done in accordance with the relevant local and national regulations.

# Troubleshooting



## ■ Fault diagnosis by remote controller

- The remote controller can receive relevant error codes from the indoor unit.

**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
	JA	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
OUTDOOR UNIT	C9	FAULTY SUCTION AIR TEMPERATURE SENSOR
	EA	COOLING-HEATING SWITCHING ERROR
	E1	CIRCUIT BOARD FAULT
	E5	OL STARTED
	E6	FAULTY COMPRESSOR START UP
	E7	DC FAN MOTOR FAULT
	E8	OVERCURRENT INPUT
	F3	HIGH TEMPERATURE DISCHARGE PIPE CONTROL
	F6	HIGH PRESSURE CONTROL (IN COOLING)
	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
	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 indicates 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.

**DAIKIN INDUSTRIES CZECH REPUBLIC s.r.o.**

U Nové Hospody 1/1155, 301 00 Plzeň Skvrňany, Czech Republic

**DAIKIN EUROPE N.V.**

Zandvoordestraat 300, B-8400 Oostende, Belgium