

Part 5

Operation Manual

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1. Instruction

1.1 FTK(X)S20/25/35, CDK(X)S, FDXS, FLXS Series

1.1.1 Manual Contents and Reference Page

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	FTK(X)S20D FTK(X)S25/35G	
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Model Series	Duct Connected Type		Floor/Ceiling Suspended Dual Type
	CDKS25/35/50/60C FDXS25/35/50/60C	CDK(X)S25/35EA	FLXS25B FLXS35/50/60G
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★1 : Illustrations are for wall mounted type FTK(X)S20D as representative.

★2 : Illustrations are for duct connected type as representative.

1.1.2 Safety Precautions

Safety precautions

- Keep this manual where the operator can easily find them.
- Read this manual attentively before starting up the unit.
- For safety reason the operator must read the following cautions carefully.
- This manual classifies precautions into WARNING and CAUTION. Be sure to follow all precautions below: they are all important for ensuring safety.



WARNING

If you do not follow these instructions exactly, the unit may cause property damage, personal injury or loss of life.



CAUTION

If you do not follow these instructions exactly, the unit may cause minor or moderate property damage or personal injury.



Never do.



Be sure to follow the instructions.



Be sure to earth the air conditioner.



Never cause the air conditioner (including the remote controller) to get wet.



Never touch the air conditioner (including the remote controller) with a wet hand.



WARNING

- In order to avoid fire, explosion or injury, do not operate the unit when harmful, among which flammable or corrosive gases, are detected near the unit.
 - It is not good for health to expose your body to the air flow for a long time.
 - Do not put a finger, a rod or other objects into the air outlet or inlet. As the fan is rotating at a high speed, it will cause injury.
 - Do not attempt to repair, relocate, modify or reinstall the air conditioner by yourself. Incorrect work will cause electric shocks, fire etc.
- For repairs and reinstallation, consult your Daikin dealer for advice and information.



- 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 (heating) 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 abnormally such as smell of fire, stop the operation and turn off the breaker. And call your dealer for instructions.



CAUTION

- The air conditioner must be earthed. Incomplete earthing may result in electric shocks. Do not connect the earth line to a gas pipe, water pipe, lightning rod, or a telephone earth line.
- In order to avoid any quality deterioration, do not use the unit for cooling precision instruments, food, plants, animals or works of art.
- Never expose little children, plants or animals directly to the air flow.
- Do not place appliances which produce open fire in places exposed to the air flow from the unit or under the indoor unit. It may cause incomplete combustion or deformation of the unit due to the heat.
- Do not block air inlets nor outlets. Impaired air flow may result in insufficient performance or trouble.



- Do not stand or sit on the outdoor unit. Do not place any object on the unit to avoid injury, do not remove the fan guard.
 - Do not place anything under the indoor or outdoor unit that must be kept away from moisture. In certain conditions, moisture in the air may condense and drip.
 - After a long use, check the unit stand and fittings for damage.
 - Do not touch the air inlet and aluminum fins of outdoor unit. It may cause injury.
 - The appliance is not intended for use by young children or infirm persons without supervision.
 - Young children should be supervised to ensure that they do not play with the appliance.
-
- To avoid oxygen deficiency, ventilate the room sufficiently if equipment with burner is used together with the air conditioner.
 - Before cleaning, be sure to stop the operation, turn the breaker off or pull out the supply cord.
 - 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 operate the air conditioner 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.
-



Installation site.

- To install the air conditioner in the following types of environments, consult the dealer.
 - Places with an oily ambient or where steam or soot occurs.
 - Salty environment such as coastal areas.
 - Places where sulfide gas occurs such as hot springs.
 - Places where snow may block the outdoor unit.

The 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.

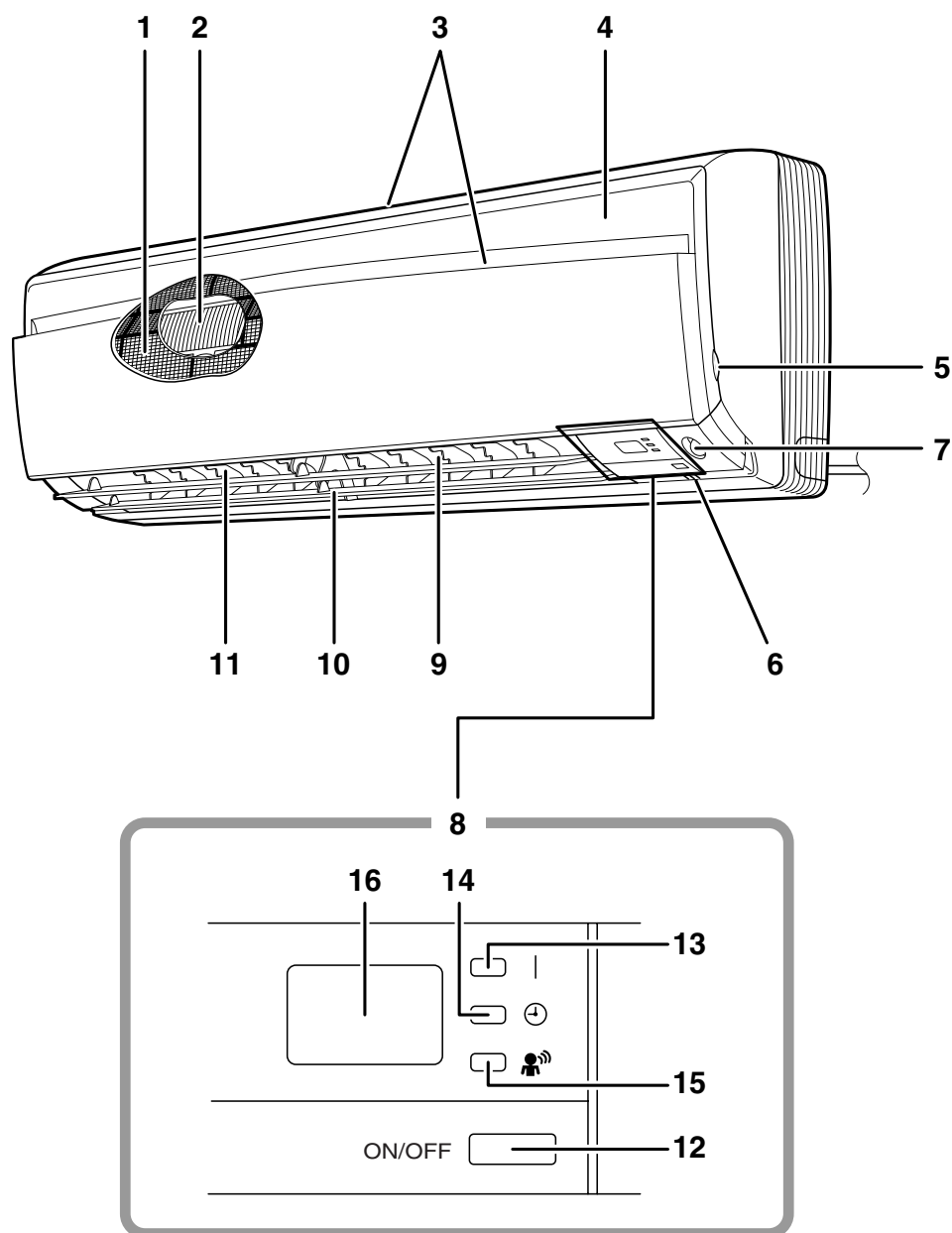
- Relocating the air conditioner requires specialized knowledge and skills. Please consult the dealer if relocation is necessary for moving or remodeling.

1.1.3 Names of Parts

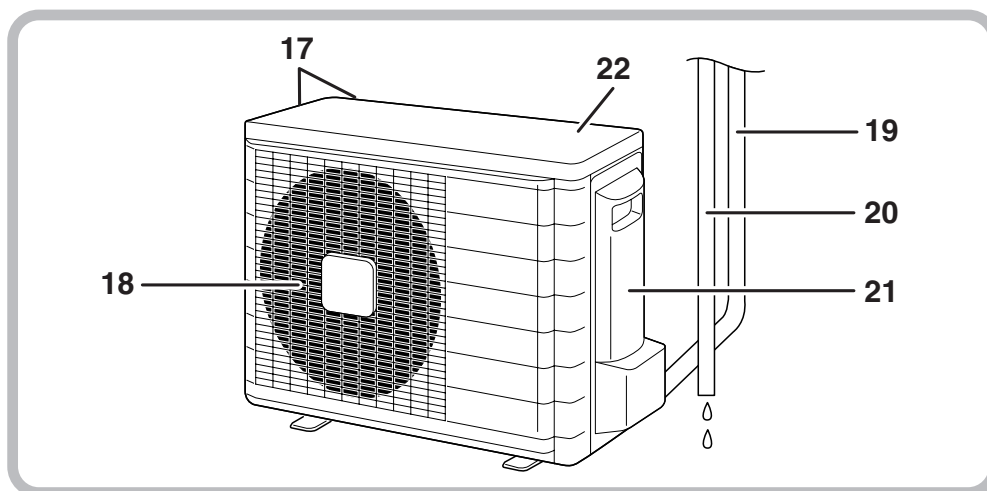
FTK(X)S20D, FTK(X)S25/35G

Names of parts

■ Indoor Unit



■ Outdoor Unit



■ Indoor Unit

1. Air filter

2. Titanium Apatite Photocatalytic Air-Purifying Filter:

- These filters are attached to the inside of the air filters.

3. Air inlet

4. Front panel

5. Panel tab

6. Room temperature sensor:

- It senses the air temperature around the unit.

7. INTELLIGENT EYE sensor:

- It detects the movements of people and automatically switches between normal operation and energy saving operation.

8. Display

9. Air outlet

10. Flaps (horizontal blades)

11. Louvers (vertical blades):

- The louvers are inside of the air outlet.

12. Indoor Unit ON/OFF switch:

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

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

- This switch is useful when the remote controller is missing.

13. Operation lamp (green)

14. TIMER lamp (yellow)

15. INTELLIGENT EYE lamp (green)

16. Signal receiver:

- It receives signals from the remote controller.
- When the unit receives a signal, you will hear a short beep.
 - Operation startbeep-beep
 - Settings changed.....beep
 - Operation stopbeeeeeep

■ Outdoor Unit

17. Air inlet: (Back and side)

18. Air outlet

19. Refrigerant piping and inter-unit cable

20. Drain hose

21. Earth terminal:

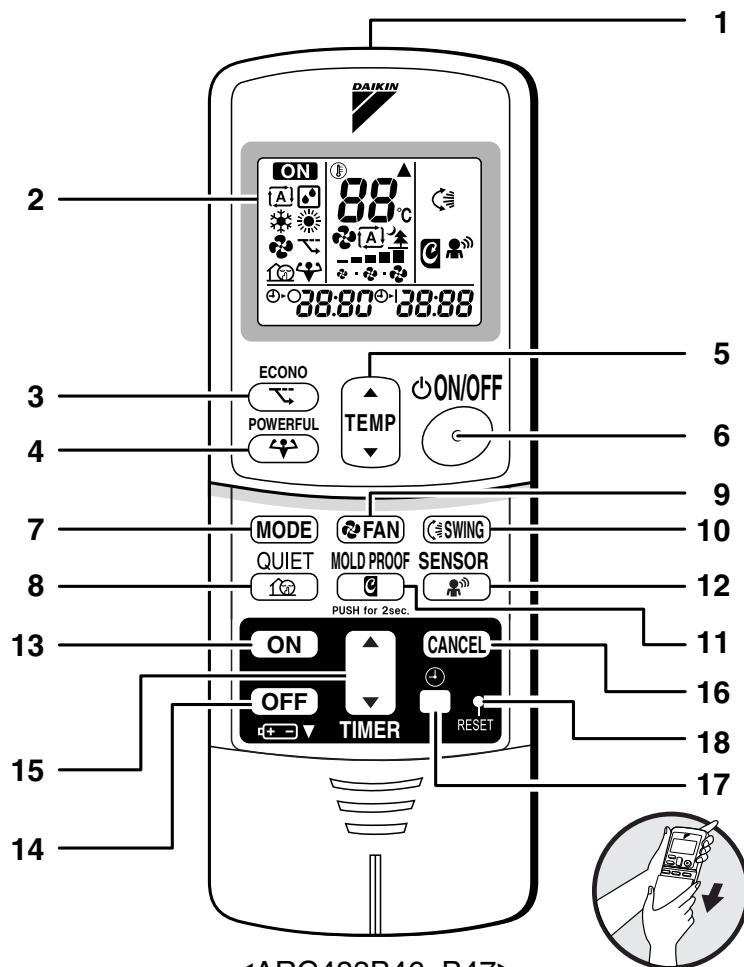
- It is inside of this cover.

22. Outside air temperature sensor:

- It senses the ambient temperature around the unit.

Appearance of the outdoor unit may differ from some models.

Remote Controller



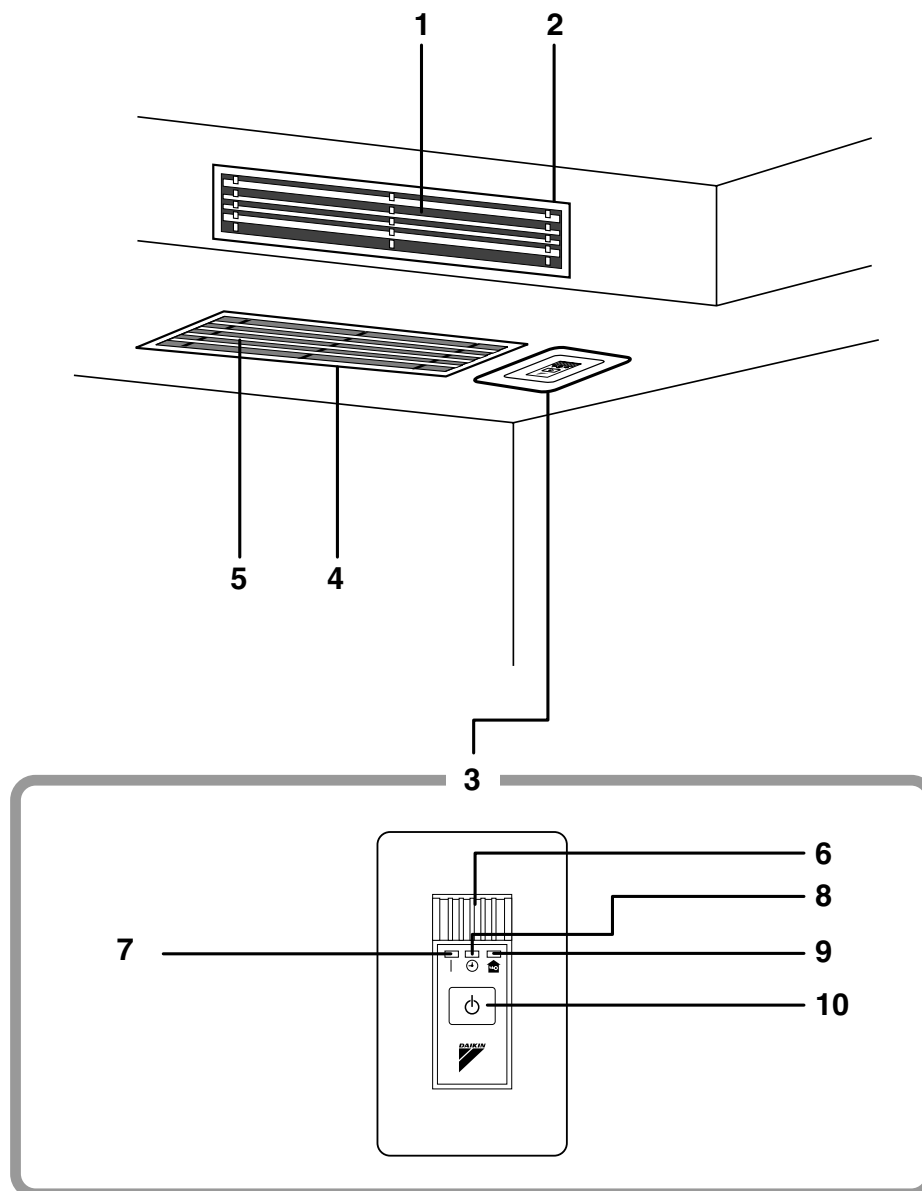
<ARC433B46, B47>

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Signal transmitter:</p> <ul style="list-style-type: none"> It sends signals to the indoor unit. <p>2. Display:</p> <ul style="list-style-type: none"> It displays the current settings.
(In this illustration, each section is shown with all its displays ON for the purpose of explanation.) <p>3. ECONO button:
ECONO operation</p> <p>4. POWERFUL button:
POWERFUL operation</p> <p>5. TEMPERATURE adjustment buttons:</p> <ul style="list-style-type: none"> It changes the temperature setting. <p>6. ON/OFF button:</p> <ul style="list-style-type: none"> Press this button once to start operation.
Press once again to stop it. <p>7. MODE selector button:</p> <ul style="list-style-type: none"> It selects the operation mode.
(AUTO/DRY/COOL/HEAT/FAN) | <p>8. QUIET button: OUTDOOR UNIT QUIET operation</p> <p>9. FAN setting button:</p> <ul style="list-style-type: none"> It selects the air flow rate setting. <p>10. SWING button</p> <p>11. MOLD PROOF button:
MOLD PROOF operation</p> <p>12. SENSOR button: INTELLIGENT EYE operation</p> <p>13. ON TIMER button</p> <p>14. OFF TIMER button</p> <p>15. TIMER Setting button:</p> <ul style="list-style-type: none"> It changes the time setting. <p>16. TIMER CANCEL button:</p> <ul style="list-style-type: none"> It cancels the timer setting. <p>17. CLOCK button</p> <p>18. RESET button:</p> <ul style="list-style-type: none"> Restart the unit if it freezes. Use a thin object to push. |
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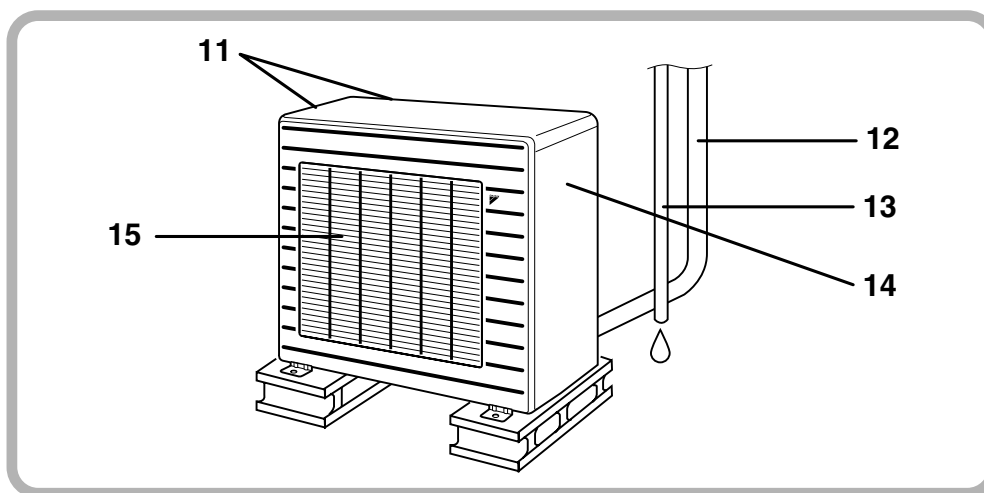
CDKS25/35/50/60C, FDXS25/35/50/60C

Names of parts

■ Indoor Unit



■ Outdoor Unit



■ Indoor Unit

1. Air outlet

2. Air outlet grille: (Field supply)

- Appearance of the Air outlet grille and Air inlet grille may differ with some models.

3. Display, Control panel

4. Suction grille: (Option)

- Appearance of the suction grille and Air inlet grille may differ with some models.

5. Air inlet

6. Room temperature sensor:

- It senses the air temperature around the unit.

7. Operation lamp (green)

8. TIMER lamp (yellow)

9. HOME LEAVE lamp (red):

- Lights up when you use HOME LEAVE operation.

10. Indoor Unit ON/OFF switch:

- Push this switch once to start operation. Push once again to stop it.
- This switch is useful when the remote controller is missing.

- The operation mode refers to the following table.

	Mode	Temperature setting	Air flow rate
CDKS	COOL	22°C	AUTO
C(F)DXS	AUTO	25°C	AUTO

■ Outdoor Unit

11. Air inlet: (Back and side)

12. Refrigerant piping and inter-unit cable

13. Drain hose

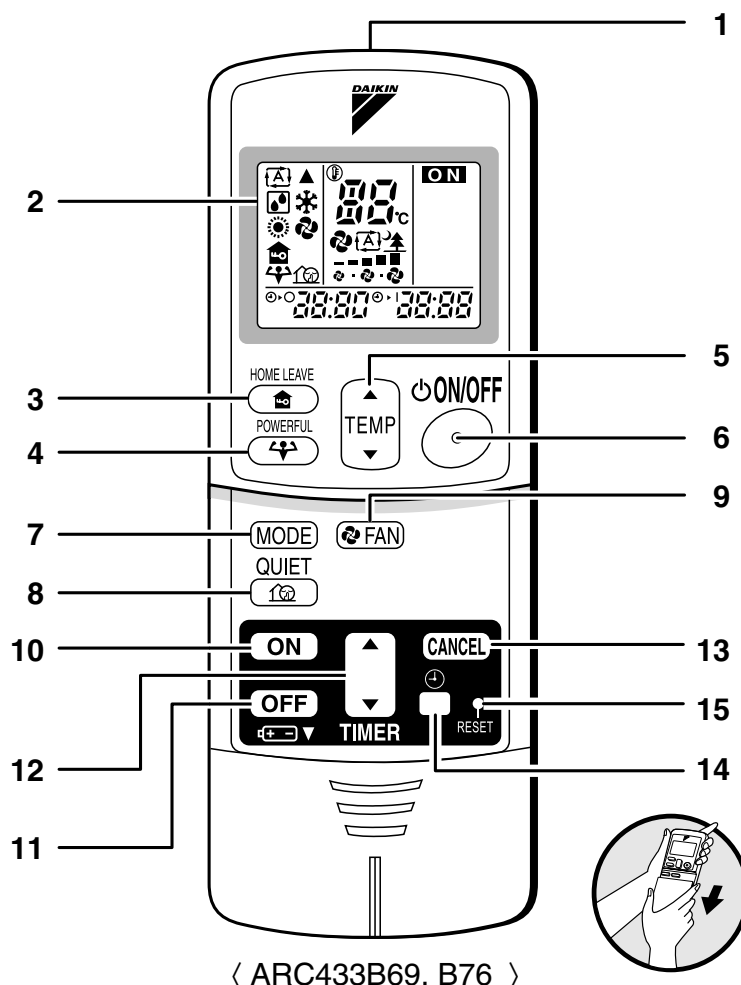
14. Earth terminal:

- It is inside of this cover.

15. Air outlet

Appearance of the outdoor unit may differ from some models.

■ Remote Controller



〈 ARC433B69, B76 〉

1. Signal transmitter:

- It sends signals to the indoor unit.

2. Display:

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

3. HOME LEAVE button:

HOME LEAVE operation

4. POWERFUL button:

POWERFUL operation

5. TEMPERATURE adjustment buttons:

- It changes the temperature setting.

6. ON/OFF button:

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

7. MODE selector button:

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

8. QUIET button: OUTDOOR UNIT QUIET operation

9. FAN setting button:

- It selects the air flow rate setting.

10. ON TIMER button

11. OFF TIMER button

12. TIMER Setting button:

- It changes the time setting.

13. TIMER CANCEL button:

- It cancels the timer setting.

14. CLOCK button

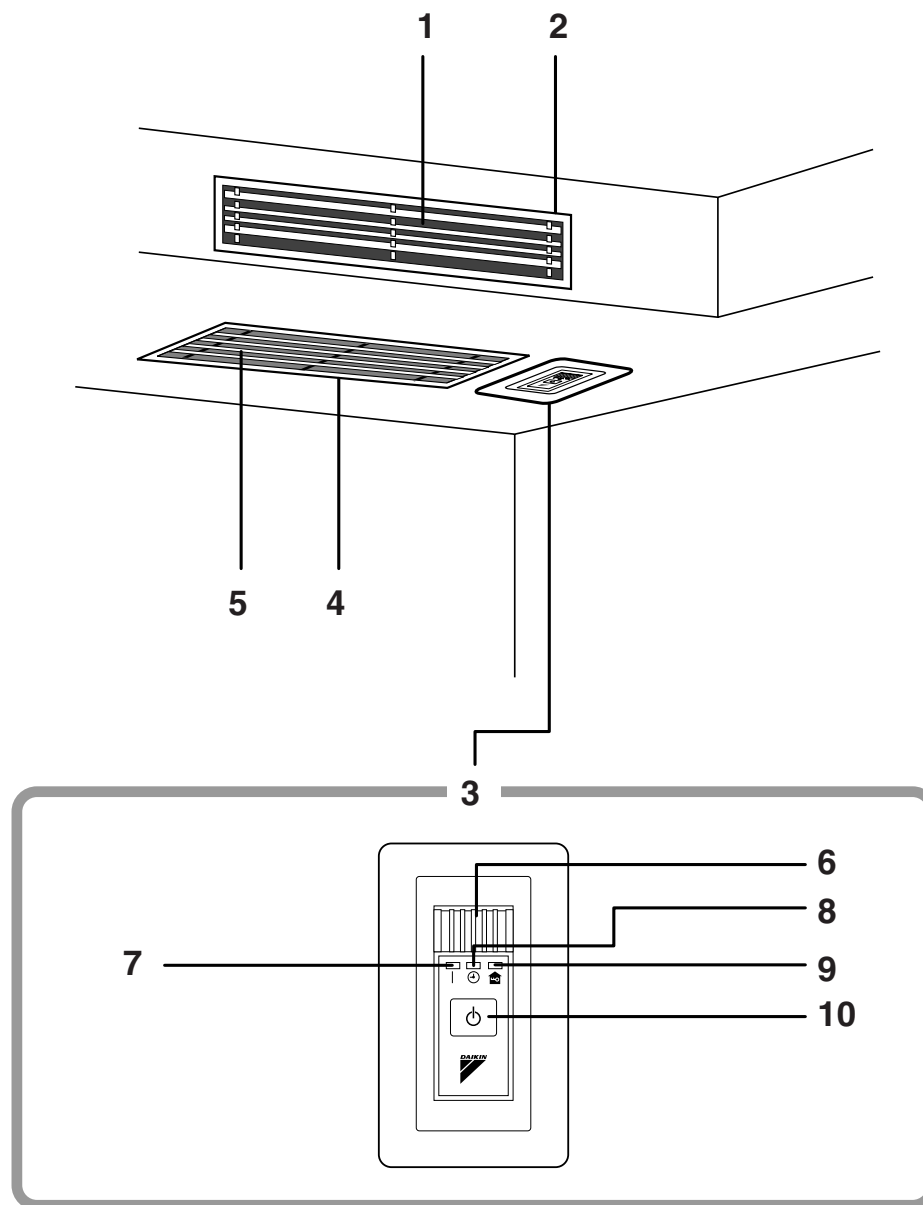
15. RESET button:

- Restart the unit if it freezes.
- Use a thin object to push.

CDK(X)S25/35EA

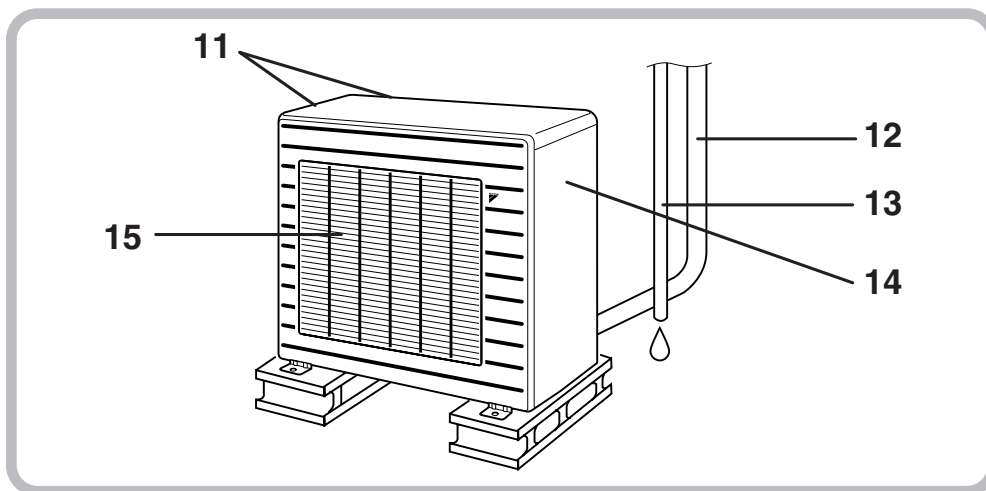
Names of parts

■ Indoor Unit



5

■ Outdoor Unit



■ Indoor Unit

1. Air outlet

2. Air outlet grille: (Field supply)

- Appearance of the Air outlet grille and Air inlet grille may differ with some models.

3. Display, Control panel

4. Suction grille: (Option)

- Appearance of the suction grille and Air inlet grille may differ with some models.

5. Air inlet

6. Room temperature sensor:

- It senses the air temperature around the unit.

7. Operation lamp (green)

8. TIMER lamp (yellow)

9. HOME LEAVE lamp (red):

- Lights up when you use HOME LEAVE operation.

10. Indoor Unit ON/OFF switch:

- Push this switch once to start operation. Push once again to stop it.
- This switch is useful when the remote controller is missing.

- The operation mode refers to the following table.

	Mode	Temperature setting	Air flow rate
CDKS	COOL	22°C	AUTO
CDXS	AUTO	25°C	AUTO

■ Outdoor Unit

11. Air inlet: (Back and side)

12. Refrigerant piping and inter-unit cable

13. Drain hose

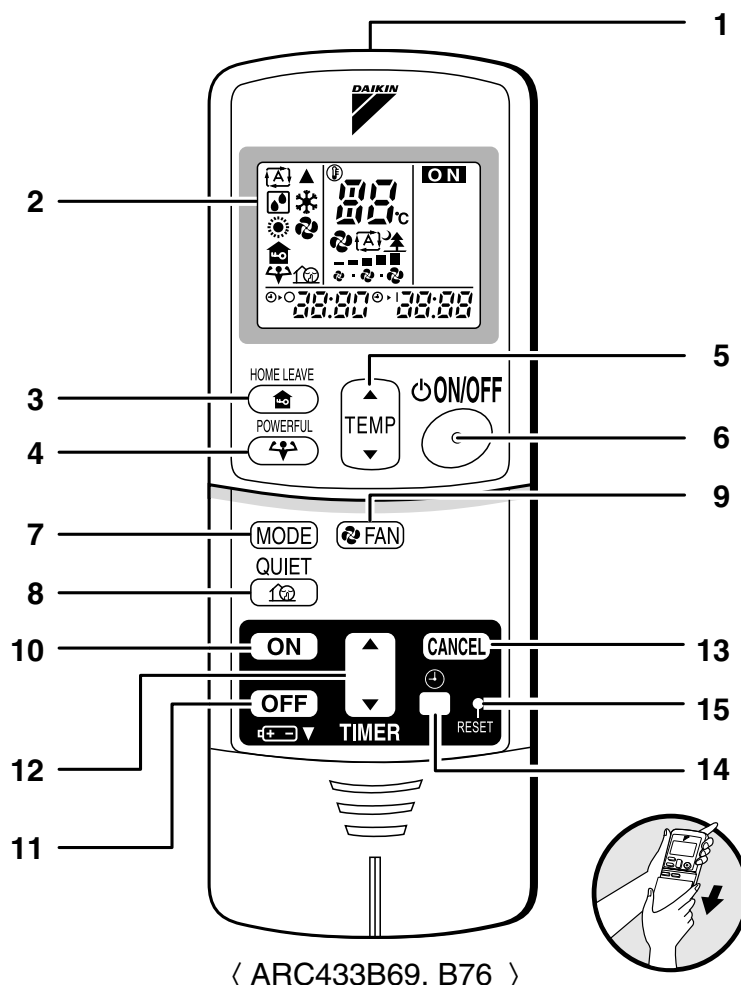
Appearance of the outdoor unit may differ from some models.

14. Earth terminal:

- It is inside of this cover.

15. Air outlet

■ Remote Controller



〈 ARC433B69, B76 〉

1. Signal transmitter:

- It sends signals to the indoor unit.

2. Display:

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

3. HOME LEAVE button:

- HOME LEAVE operation

4. POWERFUL button:

- POWERFUL operation

5. TEMPERATURE adjustment buttons:

- It changes the temperature setting.

6. ON/OFF button:

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

7. MODE selector button:

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

8. QUIET button: OUTDOOR UNIT QUIET operation

9. FAN setting button:

- It selects the air flow rate setting.

10. ON TIMER button

11. OFF TIMER button

12. TIMER Setting button:

- It changes the time setting.

13. TIMER CANCEL button:

- It cancels the timer setting.

14. CLOCK button

15. RESET button:

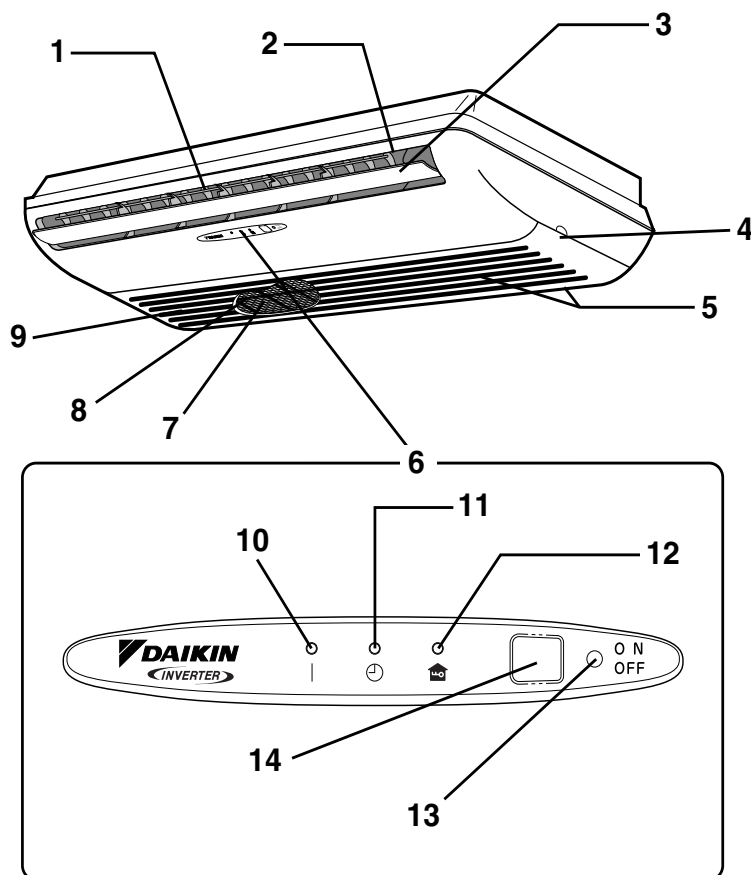
- Restart the unit if it freezes.
- Use a thin object to push.

FLXS25B, FLXS35/50/60G

Names of parts

■ Indoor Unit

The indoor unit can be installed either to the ceiling or to a wall. The descriptions contained in this manual show the case when installation is being carried out to the ceiling. (The methods of operation used are the same when installing to a wall.)



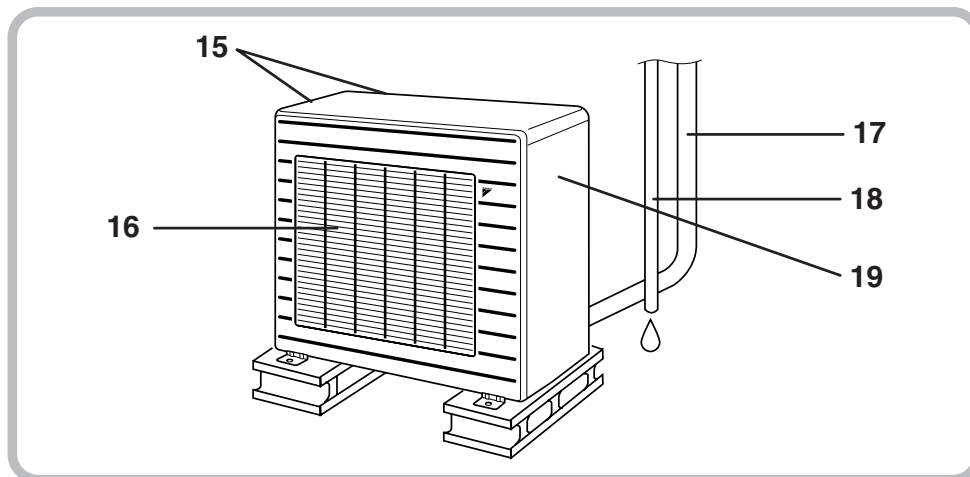
■ Opening the front grille

How to open the front grille :

CAUTION

- Before opening the front grille, be sure to stop the operation and turn the breaker OFF.

■ Outdoor Unit



5

■ Indoor Unit

1. Louvers (vertical blades):

The louvers are inside of the air outlet.

2. Air outlet

3. Flap (horizontal blade)

4. Grille tab

5. Air inlet

6. Display

7. Air filter

8. Photocatalytic deodorizing filter or

Air purifying filter:

- These filters are attached to the inside of the air filters.

9. Front grille

10. Operation lamp (green)

11. TIMER lamp (yellow)

12. HOME LEAVE lamp (red):

Lights up when you use HOME LEAVE Operation.

13. Indoor unit ON/OFF switch:

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

Mode	Temperature setting	Air flow rate
AUTO	25°C	AUTO

- Push the switch using an object with a sharp tip, such as a pen.
- This switch is useful when the remote controller is missing.

14. Signal receiver:

- It receives signals from the remote controller.
- When the unit receives a signal, you will hear a short beep.
 - Operation startbeep-beep
 - Settings changedbeep
 - Operation stopbeeeeeeep

■ Outdoor Unit

15. Air inlet: (Back and side)

16. Air outlet

17. Refrigerant piping and inter-unit cable

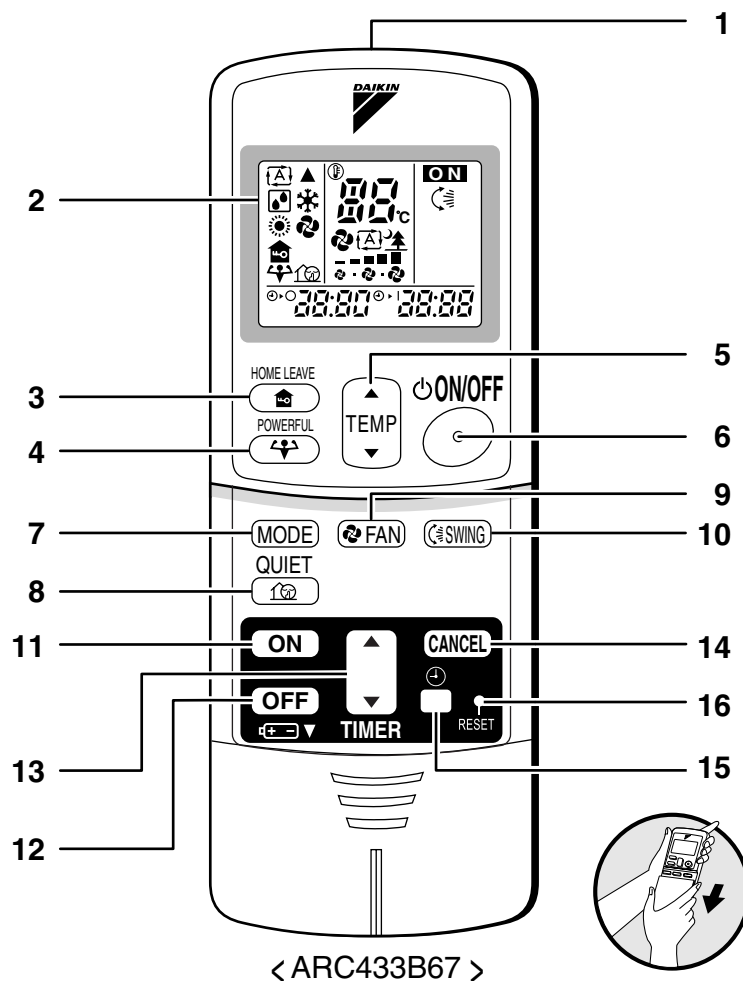
18. Drain hose

19. Earth terminal:

- It is inside of this cover.

Appearance of the outdoor unit may differ from some models.

■ Remote Controller



1. Signal transmitter:

- It sends signals to the indoor unit.

2. Display:

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

3. HOME LEAVE button:

- for HOME LEAVE operation

4. POWERFUL button:

- for POWERFUL operation

5. TEMPERATURE adjustment buttons:

- It changes the temperature setting.

6. ON/OFF button:

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

7. MODE selector button:

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

8. QUIET button:

9. FAN setting button:

- It selects the air flow rate setting.

10. SWING button:

11. ON TIMER button:

12. OFF TIMER button:

13. TIMER Setting button:

- It changes the time setting.

14. TIMER CANCEL button:

- It cancels the timer setting.

15. CLOCK button:

16. RESET button:

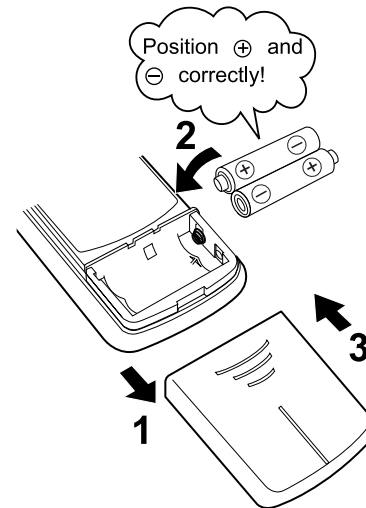
- Restart the unit if it freezes.
- Use a thin object to push.

1.1.4 Preparation Before Operation

Preparation Before Operation

■ To set the batteries

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

**5**

ATTENTION

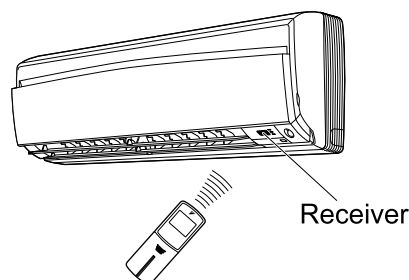
■ About batteries

- When replacing the batteries, use batteries of the same type, and replace the two old batteries together.
- When the system is not used for a long time, take the batteries out.
- We recommend replacing once a year, although if the remote controller display begins to fade or if reception deteriorates, please replace with new alkali batteries. Do not use manganese batteries.
- The attached batteries are provided for the initial use of the system.
The usable period of the batteries may be short depending on the manufactured date of the air conditioner.

Preparation Before Operation

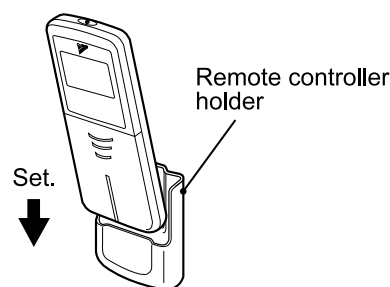
■ To operate the remote controller

- To use the remote controller, aim the transmitter at the indoor unit. If there is anything to block signals between the unit and the remote controller, such as a curtain, the unit will not operate.
- Do not drop the remote controller. Do not get it wet.
- The maximum distance for communication is 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.



- To remove, pull it upwards.

ATTENTION

■ 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 control signals happen to operate another appliance, move that appliance to somewhere else, or consult the shop.

■ To set the clock

1. Press “CLOCK button”.

0:00 is displayed.

⌚ blinks.

2. Press “TIMER setting button” to set the clock to the present time.

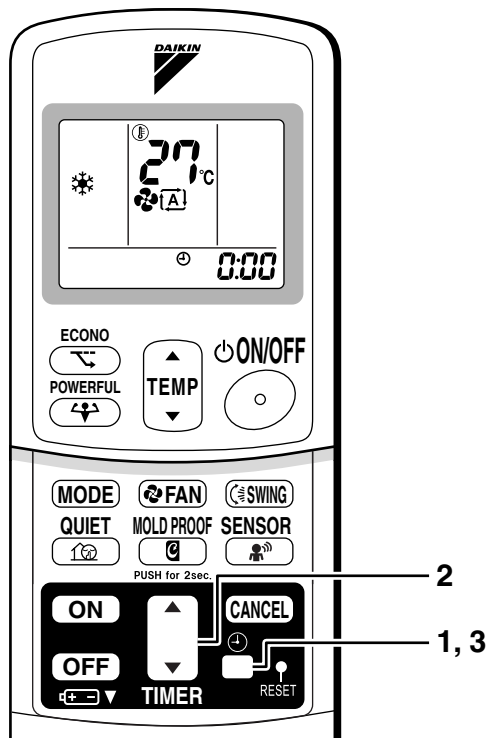
Holding down “▲” or “▼” button rapidly increases or decreases the time display.

3. Press “CLOCK button”.

⌚ blinks.

■ Turn the breaker ON

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



NOTE

■ Tips for saving energy

- Be careful not to cool (heat) the room too much. Keeping the temperature setting at a moderate level helps save energy.
- Cover windows with a blind or a curtain. Blocking sunlight and air from outdoors increases the cooling (heating) effect.
- Clogged air filters cause inefficient operation and waste energy. Clean them once in about every two weeks.

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

■ Please note

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

Mode	Operating conditions	If operation is continued out of this range
COOL	Outdoor temperature: 10 to 46°C Indoor temperature: 18 to 32°C Indoor humidity: 80% max.	<ul style="list-style-type: none"> A safety device may work to stop the operation. (In multi system, it may work to stop the operation of the outdoor unit only.) Condensation may occur on the indoor unit and drip.
HEAT	Outdoor temperature: –10 to 20°C Indoor temperature: 10 to 30°C	<ul style="list-style-type: none"> A safety device may work to stop the operation.
DRY	Outdoor temperature: 10 to 46°C Indoor temperature: 18 to 32°C Indoor humidity: 80% max.	<ul style="list-style-type: none"> A safety device may work to stop the operation. Condensation may occur on the indoor unit and drip.

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

1.1.5 AUTO · DRY · COOL · HEAT · FAN Operation

AUTO · DRY · COOL · HEAT · FAN Operation

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

From the next time on, the air conditioner will operate with the same operation mode.

■ To start operation

1. Press “MODE selector button” and select a operation mode.

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

Ⓐ: AUTO

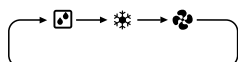
Ⓑ: DRY

❄: COOL

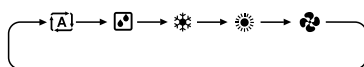
☀: HEAT

🌀: FAN

<FTK>

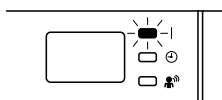


<FTX>



2. Press “ON/OFF button” .

- The OPERATION lamp lights up.



■ To stop operation

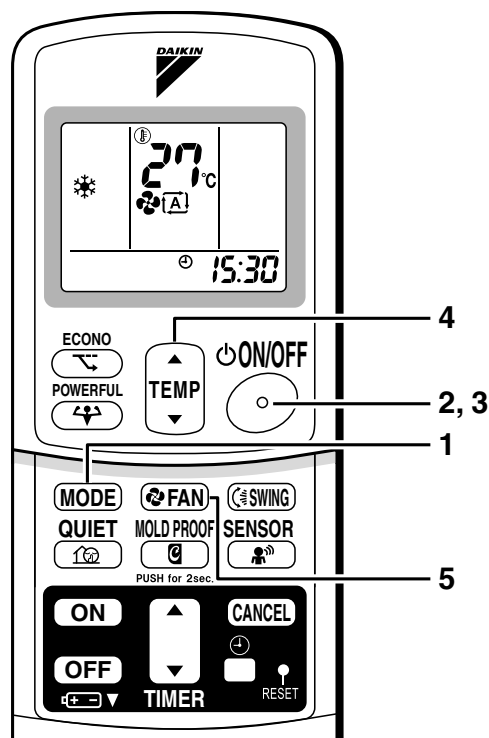
3. Press “ON/OFF button” again.

- Then OPERATION lamp goes off.

■ To change the temperature setting






4. Press “TEMPERATURE adjustment button”

DRY or FAN mode	AUTO or COOL or HEAT mode
The temperature setting is not variable.	Press “▲” to raise the temperature and press “▼” to lower the temperature.
	Set to the temperature you like. <div style="text-align: center;"> ^① 27 °C </div>




■ To change the air flow rate setting

5. Press “FAN setting button”.

DRY mode	AUTO or COOL or HEAT or FAN mode
The air flow rate setting is not variable.	<p>Five levels of air flow rate setting from “” to “” plus “” “” are available.</p> 

- Indoor unit quiet operation

When the air flow is set to “”, the noise from the indoor unit will become quieter. Use this when making the noise quieter.

The unit might lose power when the fan strength is set to a weak level.

5

NOTE

■ Note on HEAT operation

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

■ Note on DRY operation

- The computer chip works to rid the room of humidity while maintaining the temperature as much as possible. It automatically controls temperature and fan strength, so manual adjustment of these functions is unavailable.

■ Note on AUTO operation

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

■ Note on air flow rate setting

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

1.1.6 Adjusting the Air Flow Direction


FTK(X)S20D, FTK(X)S25/35G

Adjusting the Air Flow Direction


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

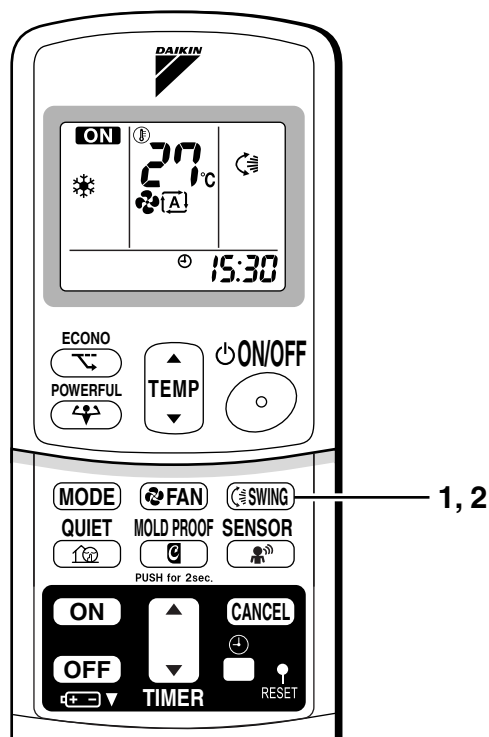
■ To adjust the horizontal blades (flaps)

1. Press “SWING button”.

- “” is displayed on the LCD and the flaps will begin to swing.

2. When the flaps have reached the desired position, press “SWING button” once more.

- The flaps will stop moving.
- “” disappears from the LCD.

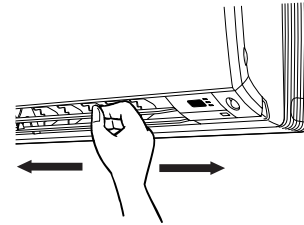


■ To adjust the vertical blades (louvres)

Hold the knob and move the louvres.

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

- When the unit is installed in the corner of a room, the direction of the louvers should be facing away from the wall.
If they face the wall, the wall will block off the wind, causing the cooling (or heating) efficiency to drop.



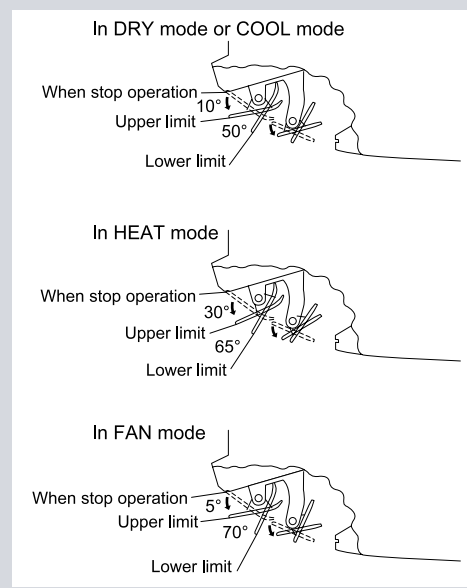
5

Notes on flaps and louvres angles

- When “ **SWING button** ” is selected, the flaps swinging range depends on the operation mode. (See the figure.)
- If the unit is operated after being stopped with the flaps pointed down in cooling or dry operation, the flaps will automatically move to a horizontal position after about one hour to prevent condensation from forming on them.

■ ATTENTION

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




FLXS25B, FLXS35/50/60G

Adjusting the Air Flow Direction

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

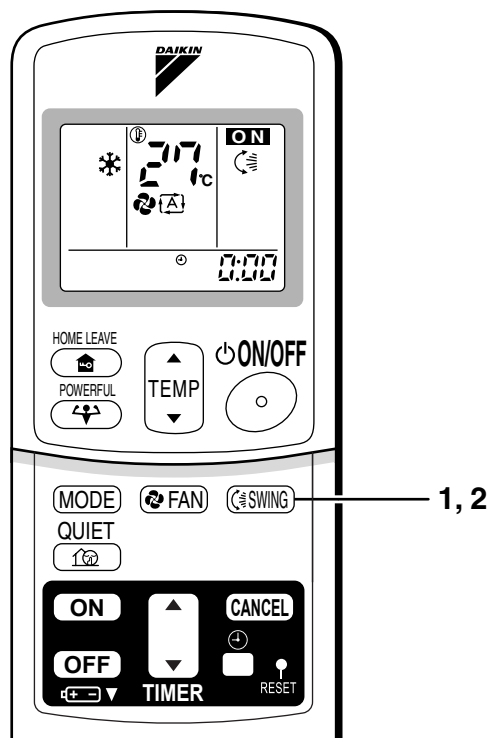
■ To adjust the horizontal blade (flap)

1. Press “SWING button”.

- “” is displayed on the LCD.

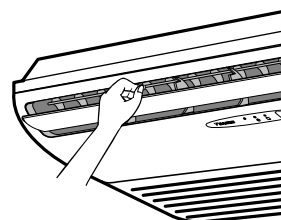
2. When the flaps have reached the desired position, press “SWING button” once more.

The flaps will stop moving.



■ To adjust the vertical blades (louvers)

- When adjusting the louver, use a robust and stable stool and watch your steps carefully.
Hold the knob and move the louvers.
(You will find a knob on the left side and the right side blades.)



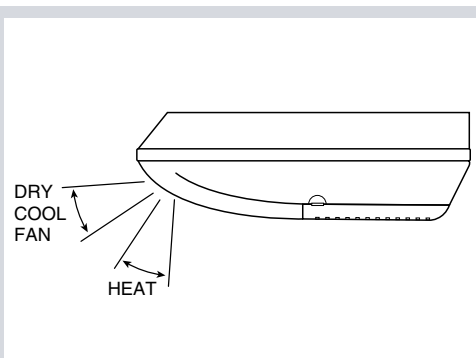
5

Notes on flap and louvers angles

- Unless [SWING] is selected, you should set the flap at a near- horizontal angle in COOL or DRY mode to obtain the best performance.
- In COOL or DRY mode, if the flap is fixed at a downward position, the flap automatically moves in about 60 minutes to prevent condensation on it.

■ ATTENTION

- Always use a remote controller to adjust the flap angle.
If you attempt to move it forcibly with hand when it is swinging, the mechanism may be broken.
- Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at a high speed.




1.1.7 POWERFUL Operation

POWERFUL Operation

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

■ To start POWERFUL operation

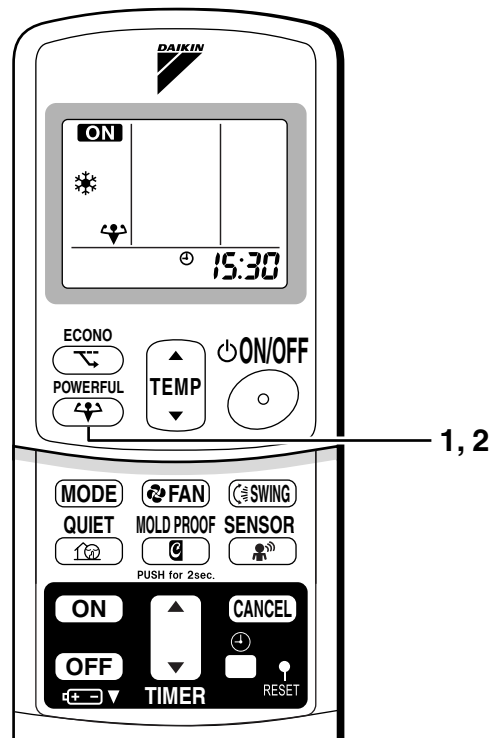
1. Press “POWERFUL button”.

- POWERFUL operation ends in 20 minutes. Then the system automatically operates again with the settings which were used before POWERFUL operation.
- When using POWERFUL operation, there are some functions which are not available.
- “” is displayed on the LCD.

■ To cancel POWERFUL operation


2. Press “POWERFUL button” again.

- “” disappears from the LCD.



NOTE

■ Notes on POWERFUL operation

- POWERFUL Operation cannot be used together with ECONO or QUIET Operation. Priority is given to the function of whichever button is pressed last.
- POWERFUL Operation can only be set when the unit is running. Pressing the operation stop button causes the settings to be canceled, and the “” disappears from the LCD.
- **In COOL and HEAT mode**
To maximize the cooling (heating) effect, the capacity of outdoor unit must be increased and the air flow rate be fixed to the maximum setting.
The temperature and air flow settings are not variable.
- **In DRY mode**
The temperature setting is lowered by 2.5°C and the air flow rate is slightly increased.
- **In FAN mode**
The air flow rate is fixed to the maximum setting.
- **When using priority-room setting**
See “Note for multi system”.

1.1.8 OUTDOOR UNIT QUIET Operation

OUTDOOR UNIT QUIET Operation

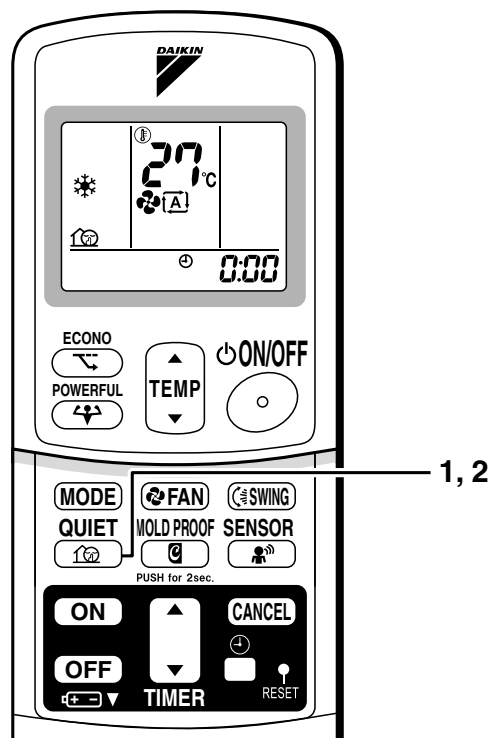
OUTDOOR UNIT QUIET operation lowers the noise level of the outdoor unit by changing the frequency and fan speed on the outdoor unit. This function is convenient during night.

■ To start OUTDOOR UNIT QUIET operation

1. Press "QUIET button".
 - "🔇" is displayed on the LCD.

■ To cancel OUTDOOR UNIT QUIET operation

2. Press "QUIET button" again.
 - "🔇" disappears from the LCD.



NOTE

■ Note on OUTDOOR UNIT QUIET operation

- If using a multi system, this function will work only when the OUTDOOR UNIT QUIET operation is set on all operated indoor units. However, if using priority-room setting, see "Note for multi system"
- This function is available in COOL, HEAT, and AUTO modes. (This is not available in FAN and DRY mode.)
- POWERFUL operation and OUTDOOR UNIT QUIET operation cannot be used at the same time. Priority is given to POWERFUL operation.

1.1.9 ECONO Operation

ECONO Operation

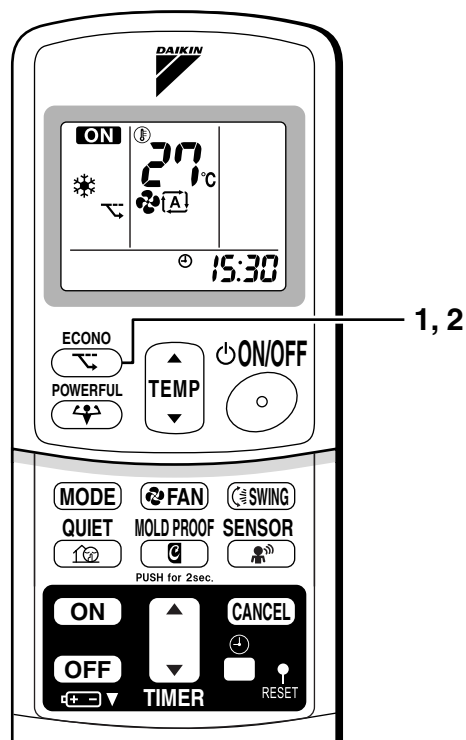
ECONO operation is a function which enables efficient operation by lowering the maximum power consumption value.

■ To start ECONO operation


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

■ To cancel ECONO operation

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



NOTE


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

1.1.10 MOLD PROOF Operation

MOLD PROOF Operation

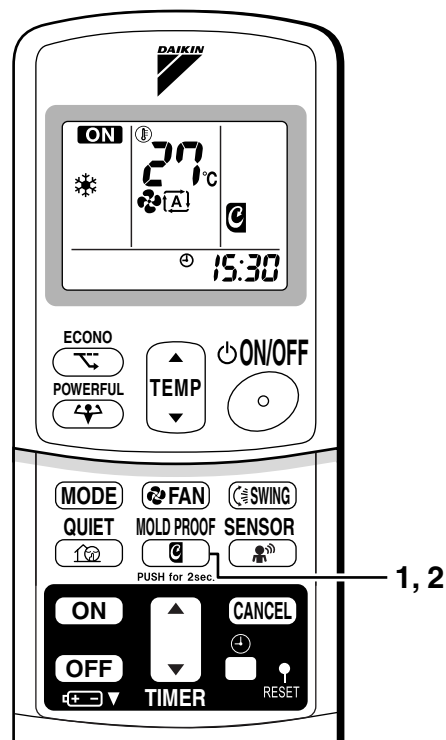
MOLD PROOF operation is a function which reduces the spread of mold by using Fan mode to lower the humidity inside the indoor unit.

■ To set MOLD PROOF operation

1. Press and hold the MOLD PROOF button for two seconds.
 - “” is displayed on the LCD.

■ To cancel MOLD PROOF operation

2. Press and hold the MOLD PROOF button for two seconds one more time.
 - “” disappears from the LCD.



5

NOTE

- MOLD PROOF operation will operate for approximately one hour after dry or cooling mode is turned off.
- This function is not designed to remove existing dust or mold.
- MOLD PROOF operation is not available when the unit is turned off using the OFF TIMER.


1.1.11 HOME LEAVE Operation

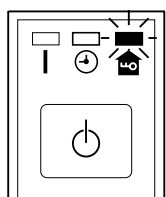
HOME LEAVE Operation

HOME LEAVE operation is a function which allows you to record your preferred temperature and air flow rate settings.

■ To start HOME LEAVE operation


1. Press “HOME LEAVE button”.

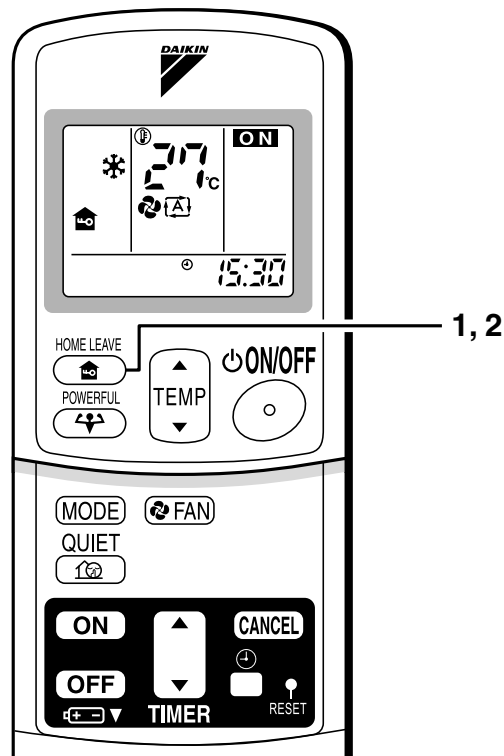
- “” is displayed on the LCD.
- The HOME LEAVE lamp lights up.



■ To cancel HOME LEAVE operation

2. Press “HOME LEAVE button” again.







- “” disappears from the LCD.
- The HOME LEAVE lamp goes off.




Before using HOME LEAVE operation.

■ To set the temperature and air flow rate for HOME LEAVE operation

When using HOME LEAVE operation for the first time, please set the temperature and air flow rate for HOME LEAVE operation. Record your preferred temperature and air flow rate.

	Initial setting		Selectable range	
	Temperature	Air flow rate	temperature	Air flow rate
Cooling	25°C	“  ”	18-32°C	5 step, “  ” and “  ”
Heating	25°C	“  ”	10-30°C	5 step, “  ” and “  ”

1. Press “HOME LEAVE button”. Make sure “” is displayed in the remote control display.

2. Adjust the set temperature with “▲” or “▼” as you like.

3. Adjust the air flow rate with “FAN” setting button as you like.

Home leave operation will run with these settings the next time you use the unit. To change the recorded information, repeat steps 1 – 3.

■ What's the HOME LEAVE operation?

Is there a set temperature and air flow rate which is most comfortable, a set temperature and air flow rate which you use the most? HOME LEAVE operation is a function that allows you to record your favorite set temperature and air flow rate. You can start your favorite operation mode simply by pressing the HOME LEAVE button on the remote control. This function is convenient in the following situations.

■ Useful in these cases

1. Use as an energy-saving mode.

Set the temperature 2-3°C higher (cooling) or lower (heating) than normal. Setting the fan strength to the lowest setting allows the unit to be used in energy-saving mode. Also convenient for use while you are out or sleeping.

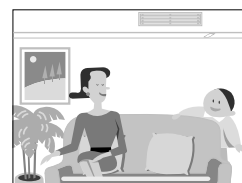
• Every day before you leave the house...



When you go out, push the "HOME LEAVE Operation" button, and the air conditioner will adjust capacity to reach the preset temperature for HOME LEAVE Operation.



When you return, you will be welcomed by a comfortably air conditioned room.



Push the "HOME LEAVE Operation" button again, and the air conditioner will adjust capacity to the set temperature for normal operation.

• Before bed...



Set the unit to HOME LEAVE Operation before leaving the living room when going to bed.



The unit will maintain the temperature in the room at a comfortable level while you sleep.



When you enter the living room in the morning, the temperature will be just right.
Disengaging HOME LEAVE Operation will return the temperature to that set for normal operation. Even the coldest winters will pose no problem!

2. Use as a favorite mode.

Once you record the temperature and air flow rate settings you most often use, you can retrieve them by pressing HOME LEAVE button. You do not have to go through troublesome remote control operations.

NOTE

- Once the temperature and air flow rate for HOME LEAVE operation are set, those settings will be used whenever HOME LEAVE operation is used in the future. To change these settings, please refer to the "Before using HOME LEAVE operation" section above.
- HOME LEAVE operation is only available in COOL and HEAT mode. Cannot be used in AUTO, DRY, and FAN mode.
- HOME LEAVE operation runs in accordance with the previous operation mode (COOL or HEAT) before using HOME LEAVE operation.
- HOME LEAVE operation and POWERFUL operation cannot be used at the same time. Last button that was pressed has priority.
- The operation mode cannot be changed while HOME LEAVE operation is being used.
- When operation is shut off during HOME LEAVE operation, using the remote controller or the indoor unit ON/OFF switch, "🏠" will remain on the remote controller display.

1.1.12 INTELLIGENT EYE Operation

INTELLIGENT EYE Operation

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

■ To start INTELLIGENT EYE operation

1. Press “SENSOR button”.

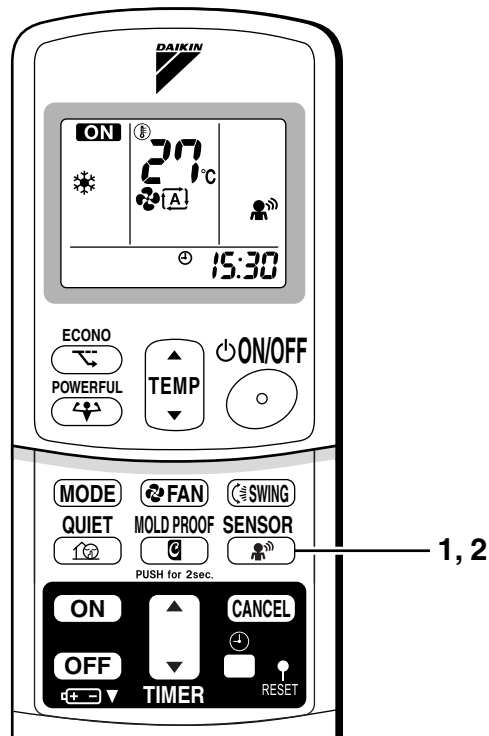
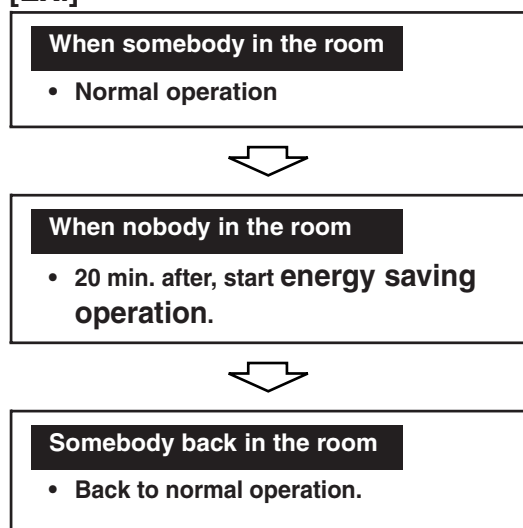
- “” is displayed on the LCD.

■ To cancel the INTELLIGENT EYE operation

2. Press “SENSOR button” again.

- “” disappears from the LCD.

[EX.]



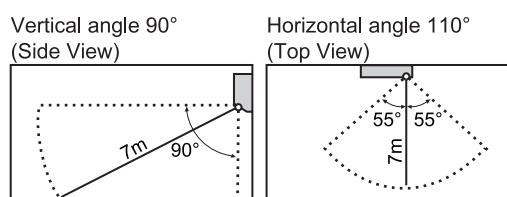
“INTELLIGENT EYE” is useful for Energy Saving

■ Energy saving operation

- Change the temperature -2°C in heating / $+2^{\circ}\text{C}$ in cooling / $+2^{\circ}\text{C}$ in dry mode from set temperature.
- Decrease the air flow rate slightly in fan operation. (In FAN mode only)

Notes on “INTELLIGENT EYE”

- Application range is as follows.



- Sensor may not detect moving objects further than 7m away. (Check the application range)
- Sensor detection sensitivity changes according to indoor unit location, the speed of passersby, temperature range, etc.
- The sensor also mistakenly detects pets, sunlight, fluttering curtains and light reflected off of mirrors as passersby.
- INTELLIGENT EYE operation will not go on during powerful operation.
- Night set mode will not go on during you use INTELLIGENT EYE operation.

⚠ CAUTION

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

1.1.13 TIMER Operation

TIMER Operation

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

■ To use OFF TIMER operation

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

1. Press “OFF TIMER button”.

0:00 is displayed.

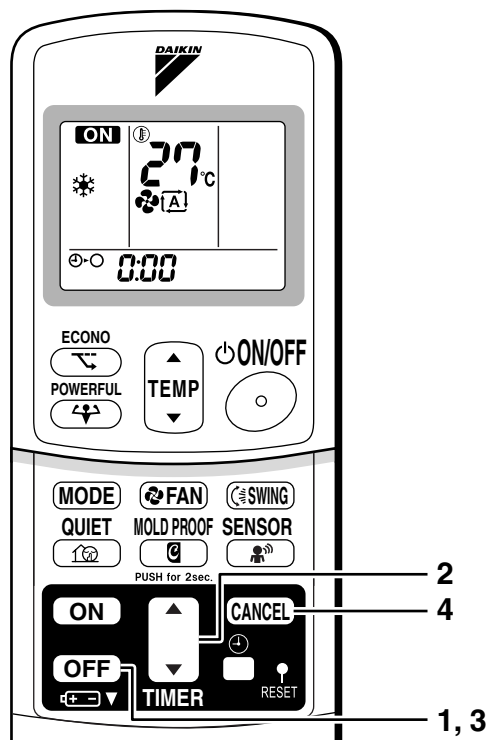
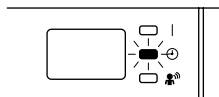
🕒👉🕒 blinks.

2. Press “TIMER Setting button” until the time setting reaches the point you like.

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

3. Press “OFF TIMER button” again.

- The TIMER lamp lights up.



■ To cancel the OFF TIMER operation

4. Press “CANCEL button”.

- The TIMER lamp goes off.

NOTE

- When TIMER is set, the present time is not displayed.
- Once you set ON, OFF TIMER, the time setting is kept in the memory. (The memory is canceled when remote controller batteries are replaced.)
- When operating the unit via the ON/OFF Timer, the actual length of operation may vary from the time entered by the user. (Maximum approx. 10 minutes)

■ NIGHT SET MODE

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

■ To use ON TIMER operation

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

1. Press “ON TIMER button”.

6:00 is displayed.

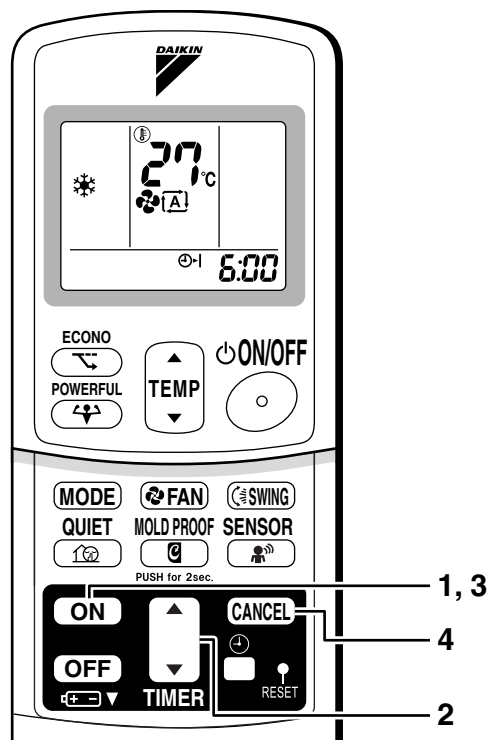
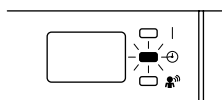
⊕-| blinks.

2. Press “TIMER Setting button” until the time setting reaches the point you like.

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

3. Press “ON TIMER button” again.

- The TIMER lamp lights up.



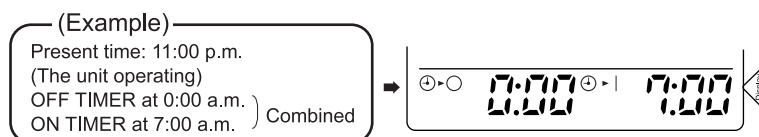
■ To cancel ON TIMER operation

4. Press “CANCEL button”.

- The TIMER lamp goes off.

■ To combine ON TIMER and OFF TIMER

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



ATTENTION

■ In the following cases, set the timer again.

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

1.1.14 Note for Multi System

Note for Multi System

<< What is a “Multi System”? >>

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

■ Selecting the Operation Mode

1. With the Priority Room Setting present but inactive or not present.

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

In this case, set the units that are turned on later to the same operation mode (*1) as the first unit.

Otherwise, they will enter the Standby Mode, and the operation lamp will flash; this does not indicate malfunction.

(*1)

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

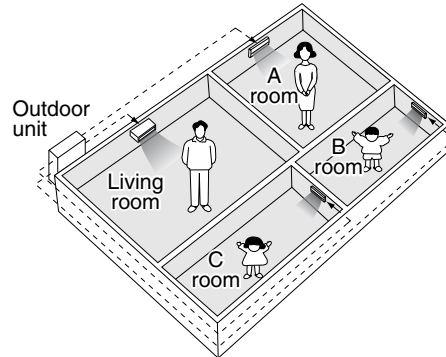
<CAUTION>

Normally, the operation mode in the room where the unit is first run is given priority, but the following situations are exceptions, so please keep this in mind.

If the operation mode of the first room is **FAN Mode**, then using **Heating Mode** in any room after this will give priority to **heating**. In this situation, the air conditioner running in FAN Mode will go on standby, and the operation lamp will flash.

2. With the Priority Room Setting active.

See “Priority Room Setting” on the next page.



■ NIGHT QUIET Mode (Available only for cooling operation)

NIGHT QUIET Mode requires initial programming during installation. Please consult your retailer or dealer for assistance. NIGHT QUIET Mode reduces the operation noise of the outdoor unit during the night time hours to prevent annoyance to neighbors.

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

■ OUTDOOR UNIT QUIET Operation

1. With the Priority Room Setting present but inactive or not present.

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

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

2. With the Priority Room Setting active.

See “Priority Room Setting” on the next page.

■ Cooling / Heating Mode Lock (Available only for heat pump models)

The Cooling / Heating Mode Lock requires initial programming during installation. Please consult your retailer or dealer for assistance. The Cooling / Heating Mode Lock sets the unit forcibly to either Cooling or Heating Mode. This function is convenient when you wish to set all indoor units connected to the Multi system to the same operation mode.

■ Priority Room Setting

The Priority Room Setting requires initial programming during installation. Please consult your retailer or dealer for assistance.

The room designated as the Priority Room takes priority in the following situations;

1. Operation Mode Priority.

As the operation mode of the Priority Room takes precedence, the user can select a different operation mode from other rooms.

〈Example〉

* Room A is the Priority Room in the examples.

When COOL mode is selected in Room A while operating the following modes in Room B,C and D :

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

2. Priority when POWERFUL operation is used.

〈Example〉

* Room A is the Priority Room in the examples.

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

3. Priority when using OUTDOOR UNIT QUIET operation.

〈Example〉

* Room A is the Priority Room in the examples.

Just by setting the unit in Room A to QUIET operation, the air conditioner starts OUTDOOR UNIT QUIET operation.

You don't have to set all the operated indoor units to QUIET operation.

1.1.15 Care and Cleaning

FTK(X)S20D, FTK(X)S25/35G

Care and Cleaning



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

Units

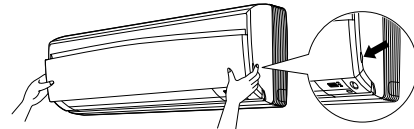
■ Indoor unit, Outdoor unit and Remote controller

1. Wipe them with dry soft cloth.

■ Front panel

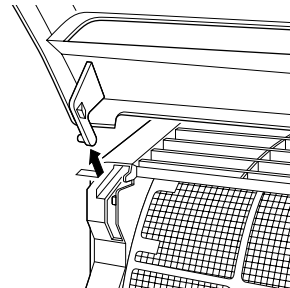
1. Open the front panel.

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



2. Remove the front panel.

- Lift the front panel up, slide it slightly to the right, and remove it from the horizontal axle.

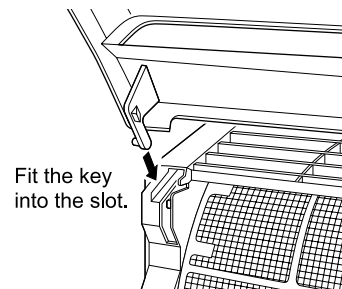


3. Clean the front panel.

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

4. Attach the front panel.

- Set the 2 keys of the front panel into the slots and push them in all the way.
- Close the front panel slowly and push the panel at the 3 points.
(1 on each side and 1 in the middle.)

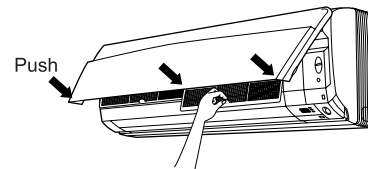
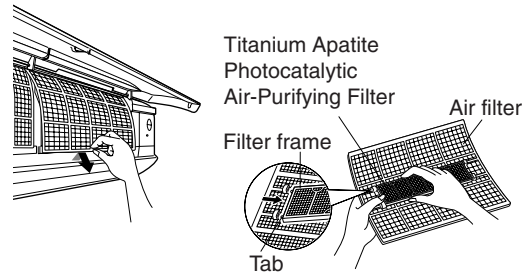
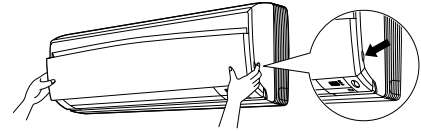


CAUTION

- Don't touch the metal parts of the indoor unit. If you touch those parts, this may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent it from falling.
- For cleaning, do not use hot water above 40°C, benzine, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

Filters

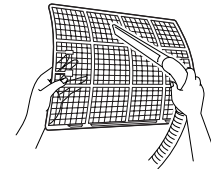
1. **Open the front panel.**
2. **Pull out the air filters.**
 - Push a little upwards the tab at the center of each air filter, then pull it down.
3. **Take off the Titanium Apatite Photocatalytic Air-Purifying Filter.**
 - Hold the recessed parts of the frame and unhook the four claws.
4. **Clean or replace each filter.**
See figure.
5. **Set the air filter and Titanium Apatite Photocatalytic Air-Purifying Filter as they were and close the front panel.**
 - Insert claws of the filters into slots of the front panel. Close the front panel slowly and push the panel at the 3 points. (1 on each side and 1 in the middle.)



5

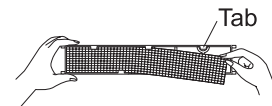
■ Air Filter

1. **Wash the air filters with water or clean them with vacuum cleaner.**
 - If the dust does not come off easily, wash them with neutral detergent thinned with lukewarm water, then dry them up in the shade.
 - It is recommended to clean the air filters every two weeks.



■ Titanium Apatite Photocatalytic Air-Purifying Filter.

The Titanium Apatite Photocatalytic Air-Purifying Filter can be renewed by washing it with water once every 6 months. We recommend replacing it once every 3 years.



[Maintenance]

1. **Remove dust with a vacuum cleaner and wash lightly with water.**
2. **If it is very dirty, soak it for 10 to 15 minutes in water mixed with a neutral cleaning agent.**
3. **Do not remove filter from frame when washing with water.**
4. **After washing, shake off remaining water and dry in the shade.**
5. **Since the material is made out of paper, do not wring out the filter when removing water from it.**

[Replacement]

1. **Remove the tabs on the filter frame and replace with a new filter.**
 - Dispose of the old filter as flammable waste.

NOTE

- Operation with dirty filters:
 (1) cannot deodorize the air. (2) cannot clean the air.
 (3) results in poor heating or cooling. (4) may cause odour.
- To order Titanium Apatite Photocatalytic Air-Purifying Filter contact to the service shop there you bought the air conditioner.
- Dispose of old filters as burnable waste.

Item	Part No.
Titanium Apatite Photocatalytic Air-Purifying Filter. (without frame) 1 set	KAF970A46

Check

Check that the base, stand and other fittings of the outdoor unit are not decayed or corroded.
Check that nothing blocks the air inlets and the outlets of the indoor unit and the outdoor unit.
Check that the drain comes smoothly out of the drain hose during COOL or DRY operation. <ul style="list-style-type: none"> • If no drain water is seen, water may be leaking from the indoor unit. Stop operation and consult the service shop if this is the case.

■ Before a long idle period

- 1. Operate the “Fan only” for several hours on a fine day to dry out the inside.**
 - Press “MODE selector button” and select “Fan” operation.
 - Press “ON/OFF button” and start operation.
- 2. After operation stops, turn off the breaker for the room air conditioner.**
- 3. Clean the air filters and set them again.**
- 4. Take out batteries from the remote controller.**
 - When a multi outdoor unit is connected, make sure the heating operation is not used at the other room before you use the fan operation.

CDKS25/35/50/60C, FDXS25/35/50/60C

Care and Cleaning



CAUTION

- Only a qualified service person is allowed to perform maintenance.
- Before cleaning, be sure to stop the operation and turn the breaker OFF.

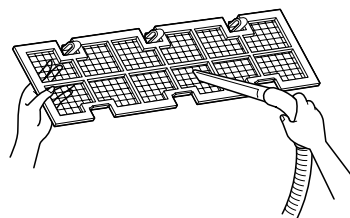
■ Cleaning the air filter

1. Removing the air filter.

- Rear suction
Pull the bottom side of the air filter backwards, over the 3 bends.
- Bottom suction
Pull the filter over the 3 bends situated at the backside of the unit.

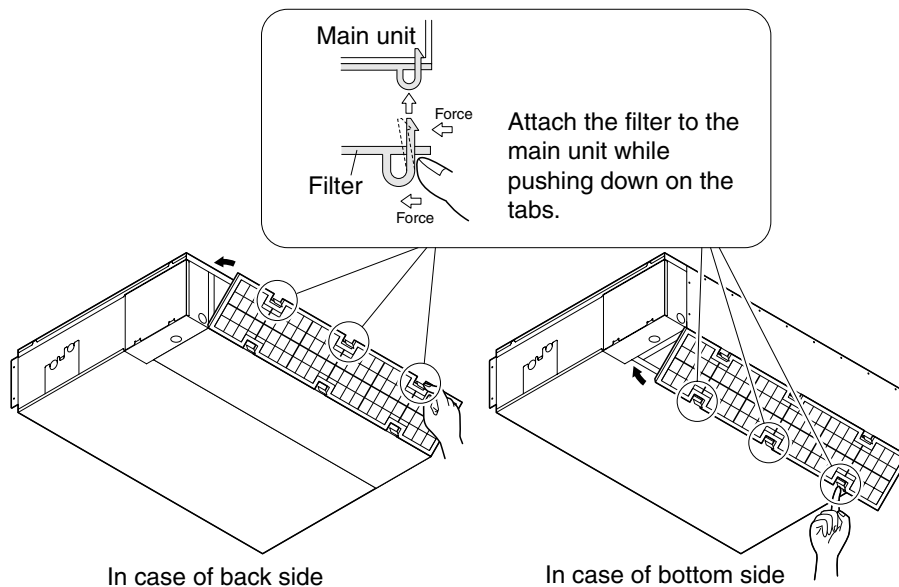
2. Cleaning the air filter.

Remove dust from the air filter using a vacuum cleaner and gently rinse them in cool water. Do not use detergent or hot water to avoid filter shrinking or deformation. After cleaning dry them in the shade.



3. Replacing the air filter.

- Rear suction
Hook the filter behind the flap situated at the top of the unit and push the other side gently over the 3 bends.
- Bottom suction
Hook the filter behind the flap situated at the middle of the unit and push the other side gently over the 3 bends.



■ Cleaning the drain pan

- Clean the drain pan periodically, or drain piping may be clogged with dust and may result in water leakage. Ask your DAIKIN dealer to clean them.
- Prepare a cover locally to prevent any dust in the air around the indoor unit from getting in the drain pan, if there is a great deal of dust present.

CAUTION

- Do not operate the air conditioner without filters, this to avoid dust accumulation inside the unit.
- Do not remove the air filter except when cleaning.
Unnecessary handling may damage the filter.
- Do not use gasoline, benzene, thinner, polishing powder, liquid insecticide, It may cause discoloring or warping.
- Do not let the indoor unit get wet. It may cause an electric shock or a fire.
- Operation with dusty air filters lowers the cooling and heating capacity and wastes energy.
- The suction grille is option.
- Do not use water or air of 50°C or higher for cleaning air filters and outside panels.

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 “Fan only” for several hours on a fine day to dry out the inside.**
 - Press “MODE selector button” and select “FAN” operation.
 - Press “ON/OFF button” and start operation.
- 2. After operation stops, turn off the breaker for the room air conditioner.**
- 3. Clean the air filters and set them again.**
- 4. Take out batteries from the remote controller.**
 - When a multi outdoor unit is connected, make sure the heating operation is not used at the other room before you use the fan operation.

CDK(X)S25/35EA

Care and Cleaning



CAUTION

- Only a qualified service person is allowed to perform maintenance.
- Before cleaning, be sure to stop the operation and turn the breaker OFF.

■ Cleaning the air filter

1. Removing the air filter.

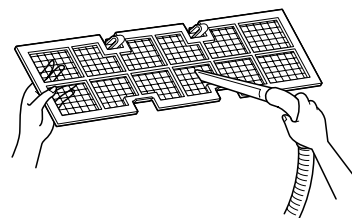
- Rear suction
Pull the bottom side of the air filter backwards, over the bends.
- Bottom suction
Pull the filter over the bends situated at the backside of the unit.

2. Cleaning the air filter.

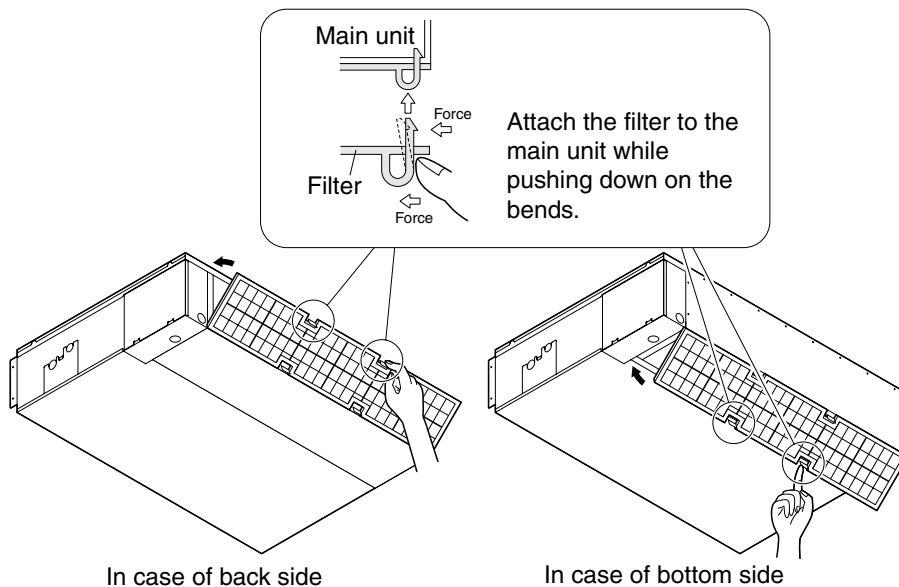
Remove dust from the air filter using a vacuum cleaner and gently rinse them in cool water. Do not use detergent or hot water to avoid filter shrinking or deformation. After cleaning dry them in the shade.

3. Replacing the air filter.

- Rear suction
Hook the filter behind the flap situated at the top of the unit and push the other side gently over the bends.
- Bottom suction
Hook the filter behind the flap situated at the middle of the unit and push the other side gently over the bends.



5



■ Cleaning the drain pan

- Clean the drain pan periodically, or drain piping may be clogged with dust and may result in water leakage. Ask your DAIKIN dealer to clean them.
- Prepare a cover locally to prevent any dust in the air around the indoor unit from getting in the drain pan, if there is a great deal of dust present.

CAUTION

- Do not operate the air conditioner without filters, this to avoid dust accumulation inside the unit.
- Do not remove the air filter except when cleaning. Unnecessary handling may damage the filter.
- Do not use gasoline, benzene, thinner, polishing powder, liquid insecticide, It may cause discoloring or warping.
- Do not let the indoor unit get wet. It may cause an electric shock or a fire.
- Operation with dusty air filters lowers the cooling and heating capacity and wastes energy.
- The suction grille is option.
- Do not use water or air of 50°C or higher for cleaning air filters and outside panels.
- Ask your DAIKIN dealer how to clean it.

Check

Check that the base, stand and other fittings of the outdoor unit are not decayed or corroded.
Check that nothing blocks the air inlets and the outlets of the indoor unit and the outdoor unit.
Check that the drain comes smoothly out of the drain hose during COOL or DRY operation. <ul style="list-style-type: none"> • If no drain water is seen, water may be leaking from the indoor unit. Stop operation and consult the service shop if this is the case.

■ Before a long idle period

- 1. Operate the “FAN only” for several hours on a fine day to dry out the inside.**
 - Press “MODE selector button” and select “FAN” operation.
 - Press “ON/OFF button” and start operation.
- 2. After operation stops, turn off the breaker for the room air conditioner.**
- 3. Clean the air filters and set them again.**
- 4. Take out batteries from the remote controller.**
 - When a multi outdoor unit is connected, make sure the heating operation is not used at the other room before you use the fan operation.

FLXS25B, FLXS35/50/60G

Care and Cleaning



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

Units

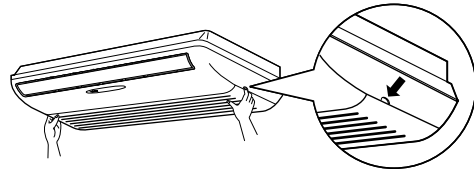
■ Indoor unit, Outdoor unit and Remote controller

1. Wipe them with dry soft cloth.

■ Front grille

1. Open the front grille.

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

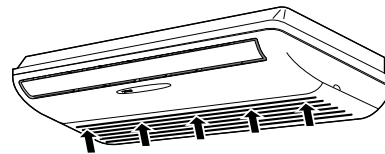


2. Clean the front grille

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

3. Close the front grille

- Push the grille at the 5 points indicated by ▲.
- Operation without air filters may result in troubles as dust will accumulate inside the indoor unit.

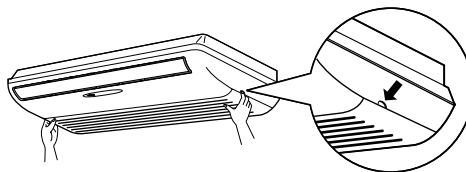


CAUTION

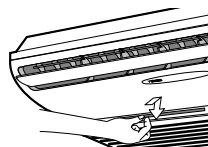
- Don't touch the metal parts of the indoor unit. If you touch those parts, this may cause an injury.
- When opening and closing the front grille, use a robust and stable stool and watch your steps carefully.
- When opening and closing the front grille, support the grille securely with hand to prevent it from falling.
- For cleaning, do not use hot water above 40 °C, benzine, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front grille is securely fixed.

Filters

1. **Open the front grille.**
2. **Pull out the air filters.**
 - Push upwards the tab at the center of each air filter, then pull it down.

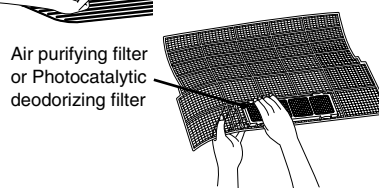


3. **Take off the air purifying filter, photocatalytic deodorizing filter.**
 - Hold the recessed parts of the frame and unhook the four claws.



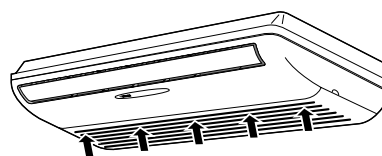
4. **Clean or replace each filter.**

See figure.



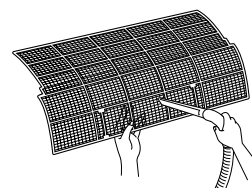
5. **Set the air filter, air purifying filter and photocatalytic deodorizing filter as they were and close the front grille.**

- Insert claws of the filters into slots of the front panel.
- Push the grille at the 5 points.



■ Air Filter

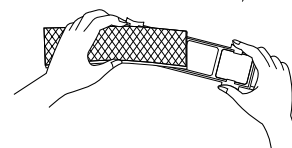
1. **Wash the air filters with water or clean them with vacuum cleaner.**
 - If the dust does not come off easily, wash them with neutral detergent thinned with lukewarm water, then dry them up in the shade.
 - It is recommended to clean the air filters every two weeks.



■ Air Purifying Filter (green)

(Replace approximately once every 3 months.)

1. **Detach the filter element and attach a new one.**
 - Insert with the green side up.
 - It is recommended to replace the air purifying filter every three months.



■ Photocatalytic Deodorizing Filter (gray)

[Maintenance]

1. **Dry the photocatalytic deodorizing filter in the sun.**
 - After removing the dust with a vacuum cleaner, place the filter in the sun for approximately 6 hours. By drying the photocatalytic deodorizing filter in the sun, its deodorizing and antibacterial capabilities are regenerated.
 - Because the filter material is paper, it can not be cleaned with water.
 - It is recommended dry the filter once every 6 months.

[Replacement]

1. **Detach the filter element and attach a new one.**

Check

Check that the base, stand and other fittings of the outdoor unit are not decayed or corroded.
Check that nothing blocks the air inlets and the outlets of the indoor unit and the outdoor unit.
Check that the drain comes smoothly out of the drain hose during COOL or DRY operation. <ul style="list-style-type: none"> If no drain water is seen, water may be leaking from the indoor unit. Stop operation and consult the service shop if this is the case.

■ Before a long idle period

- 1. Operate the “FAN only” for several hours on a fine day to dry out the inside.**
 - Press “MODE selector button” and select “FAN” operation.
 - Press “ON/OFF button” and start operation.
- 2. After operation stops, turn off the breaker for the room air conditioner.**
- 3. Clean the air filters and set them again.**
- 4. Take out batteries from the remote controller.**
 - When a multi outdoor unit is connected, make sure the heating operation is not used at the other room before you use the fan operation.

5

NOTE

- Operation with dirty filters :
 - (1) cannot deodorize the air.
 - (2) cannot clean the air.
 - (3) results in poor heating or cooling.
 - (4) may cause odour.
- The air purifying filter and Photocatalytic deodorizing filter cannot be reused, even if washed.
- In principle, there is no need to replace the photocatalytic deodorizing filter. Remove the dust periodically with a vacuum cleaner. However, it is recommended to replace the filter in the following cases.
 - (1) The paper material is torn or broken during cleaning.
 - (2) The filter has become extremely dirty after long use.
- To order air purifying filter or Photocatalytic deodorizing filter, contact to the service shop where you bought the air conditioner.
- Dispose of old air filters as non-burnable waste and Photocatalytic deodorizing filters as burnable waste.

Item	Part No.
Photocatalytic deodorizing filter (with frame)	KAZ917B41
Photocatalytic deodorizing filter (without frame)	KAZ917B42
Air purifying filter (with frame)	KAF925B41
Air purifying filter (without frame)	KAF925B42

1.1.16 Troubleshooting

Trouble Shooting

These cases are not troubles.

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

Case	Explanation
Operation does not start soon. <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.
Hot air does not flow out soon after the start of heating operation.	<ul style="list-style-type: none"> The air conditioner is warming up. You should wait for 1 to 4 minutes. (The system is designed to start discharging air only after it has reached a certain temperature.)
The heating operation stops suddenly and a flowing sound is heard.	<ul style="list-style-type: none"> The system is taking away the frost on the outdoor unit. You should wait for about 3 to 8 minutes.
The outdoor unit emits water or steam.	<ul style="list-style-type: none"> ■ In HEAT mode <ul style="list-style-type: none"> The frost on the outdoor unit melts into water or steam when the air conditioner is in defrost operation. ■ In COOL or DRY mode <ul style="list-style-type: none"> Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.
Mists come 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 air flow 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 air flow. (If this happens, we recommend you to have the indoor unit washed by a technician. Consult the service shop where you bought the air conditioner.)
The outdoor fan rotates while the air conditioner is not in operation.	<ul style="list-style-type: none"> ■ After operation is stopped: <ul style="list-style-type: none"> The outdoor fan continues rotating for another 60 seconds for system protection. ■ While the air conditioner is not in operation: <ul style="list-style-type: none"> When the outdoor temperature is very high, the out door 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.

Check again.

Please check again before calling a repair person.

Case	Check
The air conditioner does not operate. (OPERATION lamp is off)	<ul style="list-style-type: none"> • Hasn't a breaker turned OFF or a fuse blown? • Isn't it a power failure? • Are batteries set in the remote controller? • Is the timer setting correct?
Cooling (Heating) effect is poor.	<ul style="list-style-type: none"> • Are the air filters clean? • Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? • Is the temperature setting appropriate? • Are the windows and doors closed? • Are the air flow rate and the air direction set appropriately? • Is the unit set to the INTELLIGENT EYE mode?
Operation stops suddenly. (OPERATION lamp flashes.)	<ul style="list-style-type: none"> • Are the air filters clean? • Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? 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 flashes, call the service shop where you bought the air conditioner. • Are operation modes all the same for indoor units connected to outdoor units in the multi system? If not, set all indoor units to the same operation mode and confirm that the lamps flash. Moreover, when the operation mode is in "AUTO", set all indoor unit operation modes to "COOL" or "HEAT" for a moment and check again that the lamps are normal. If the lamps stop flashing after the above steps, there is no malfunction.
An abnormal functioning happens during operation.	<ul style="list-style-type: none"> • The air conditioner may malfunction with lightning or radio waves. Turn the breaker OFF, turn it ON again and try operating the air conditioner with the remote controller.

Call the service shop immediately.



WARNING

- When an abnormality (such as a burning smell) occurs, stop operation and turn the breaker OFF.
Continued operation in an abnormal condition may result in troubles, electric shocks or fire.
Consult the service shop where you bought the air conditioner.
- Do not attempt to repair or modify the air conditioner by yourself.
Incorrect work may result in electric shocks or fire.
Consult the service shop where you bought the air conditioner.

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

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



Turn the breaker OFF and call the service shop.

■ After a power failure

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

■ Lightning

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

We recommend periodical maintenance.



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

The maintenance cost must be born by the user.

1.2 FTK(X)S50/60/71J Series

Safety Precautions




- Keep this manual where the operator can easily find them.
- Read the precautions in this manual carefully before operating the unit.
- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.

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

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

WARNING

-  In order to avoid fire, explosion or injury, do not operate the unit when harmful, among which flammable or corrosive gases, are detected near the unit.
- Be aware that prolonged, direct exposure to cool or warm air from the air conditioner, or to air that is too cool or too warm can be harmful to your physical condition and health.
- Do not place objects, including rods, your fingers, etc., in the air inlet or outlet. Product malfunctioning, product or injury damage may result due to contact with the air conditioner's 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.
-  Beware of fire in case of refrigerant leakage. If the air conditioner is not operating correctly, i.e. not generating cool or warm air, refrigerant leakage could be the cause. Consult your dealer for assistance. The refrigerant within the air conditioner is safe and normally does not leak. However, in the event of a leakage, contact with a naked burner, heater or cooker may result in generation of noxious gas. Do not longer use the air conditioner until a qualified service person confirms that the leakage has been repaired.
- Do not attempt to install or repair the air conditioner yourself. Improper workmanship may result in water leakage, electric shocks or fire hazards. Please contact your local dealer or qualified personnel for installation and maintenance work.
- When the air conditioner is malfunctioning (giving off a burning odour, etc.) turn off power to the unit and contact your local dealer. Continued operation under such circumstances may result in a failure, electric shocks or fire hazards.
- Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks or fire.
-  Be sure to earth the unit. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.

CAUTION

-  Do not use the air conditioner for purposes other than those for which it is intended. Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.
- Do not expose plants or animals directly to airflow from the unit as this may cause adverse effects.
- Do not place appliances that produce naked flames in places exposed to the airflow from the unit as this may impair combustion of the burner.

⚠ CAUTION



- 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.
- 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 give impact to the indoor and outdoor units, or otherwise product damage may result.
- Do not place flammable items, such as spray cans, within 1 meter of the air outlet.
The spray cans may explode as a result of hot air from the indoor or outdoor units.
- Be careful not to let pets urinate on the air conditioner. Urination on the air conditioner may result in electric shocks or fire.



- To avoid oxygen depletion, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.
- Before cleaning, be sure to stop unit operation, turn the breaker off or remove the power cord. Otherwise, an electric shock and injury may result.
- Only connect the air conditioner to the specified power supply circuit. Power supplies other than the one specified may result in electric shocks, overheating and fires.
- Arrange the drain hose to ensure smooth drainage. Imperfect drainage may cause wetting of the building, furniture etc.
- Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once in the unit, such animals can cause malfunctions, smoke or fire when making contact with electrical parts.
- Do not place objects around the indoor unit.
Doing so may have an adverse influence on the performance, product quality, and life of the air conditioner.



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



- 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.

Installation site.

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

Consider nuisance to your neighbours from noises.

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

Electrical work.

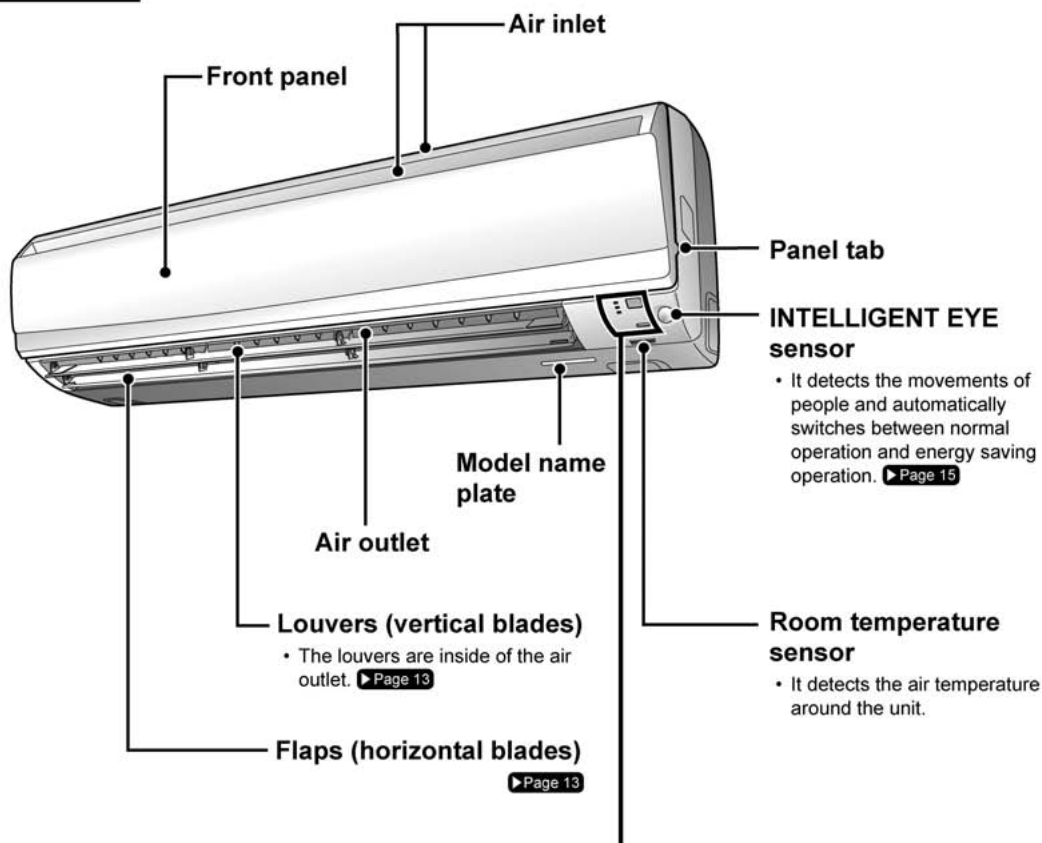
- For power supply, be sure to use a separate power circuit dedicated to the air conditioner.

System relocation.

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

Name of Parts

Indoor Unit



Display

Operation lamp (green)

TIMER lamp (yellow)

▶ Page 20,21

INTELLIGENT EYE lamp (green)

▶ Page 15

ON/OFF

Signal receiver

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

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

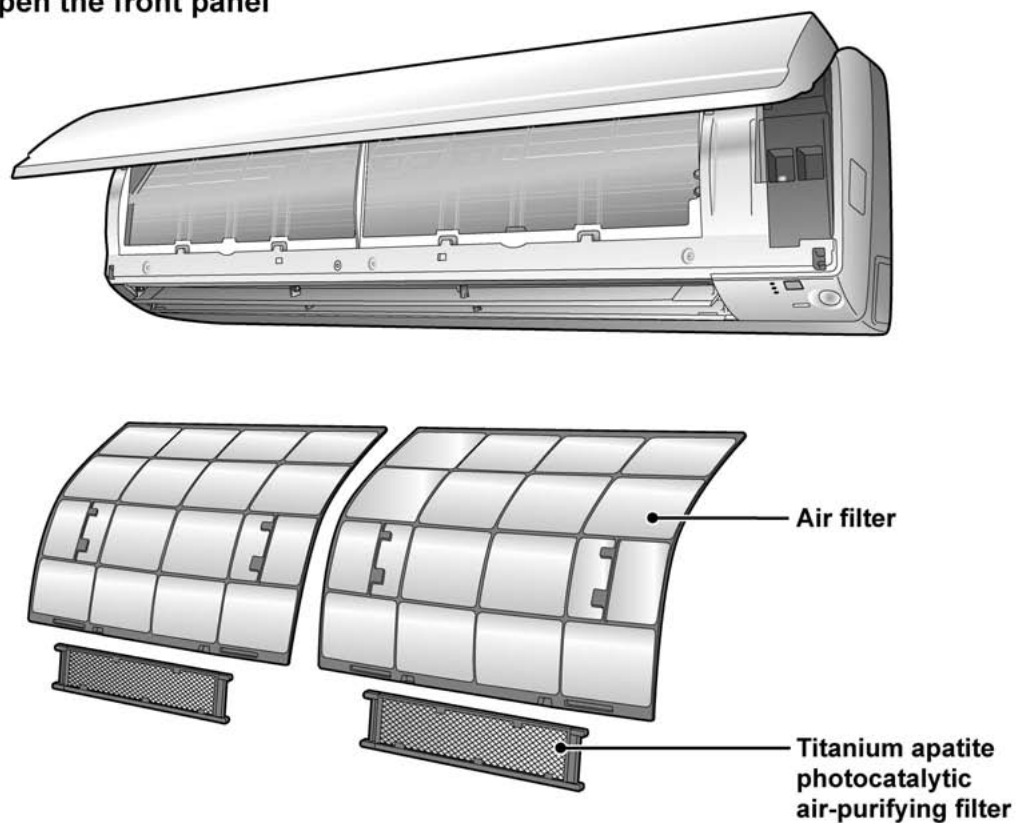
Indoor unit ON/OFF switch

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

Model	Mode	Temperature setting	Airflow rate
COOLING ONLY	COOL	22°C	AUTO
HEAT PUMP	AUTO	25°C	AUTO

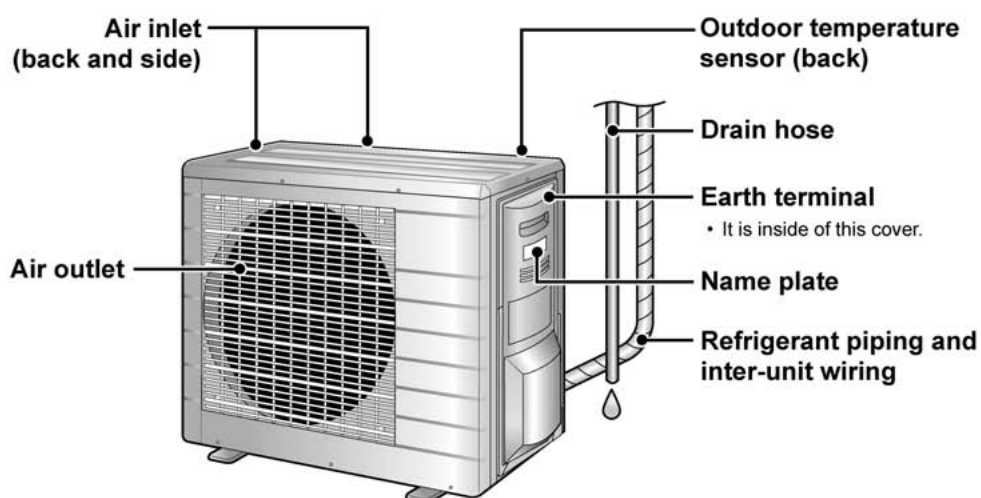
- This switch is useful when the remote controller is missing.

■ Open the front panel



Outdoor Unit

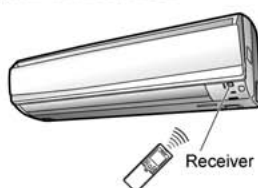
• Appearance of the outdoor unit may differ from some models.



Name of Parts

Remote Controller

Signal transmitter



- To use the remote controller, aim the transmitter at the indoor unit. If there is anything to block signals between the unit and the remote controller, such as a curtain, the unit will not operate.
- Do not drop the remote controller. Do not get it wet.
- The maximum distance for communication is approx. 7m.

FAN setting button

- It selects the airflow rate setting. [▶ Page 14](#)

POWERFUL button

- POWERFUL operation. [▶ Page 17](#)

Display (LCD)

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

TEMPERATURE adjustment buttons

- It changes the temperature setting. [▶ Page 12](#)

ON/OFF button

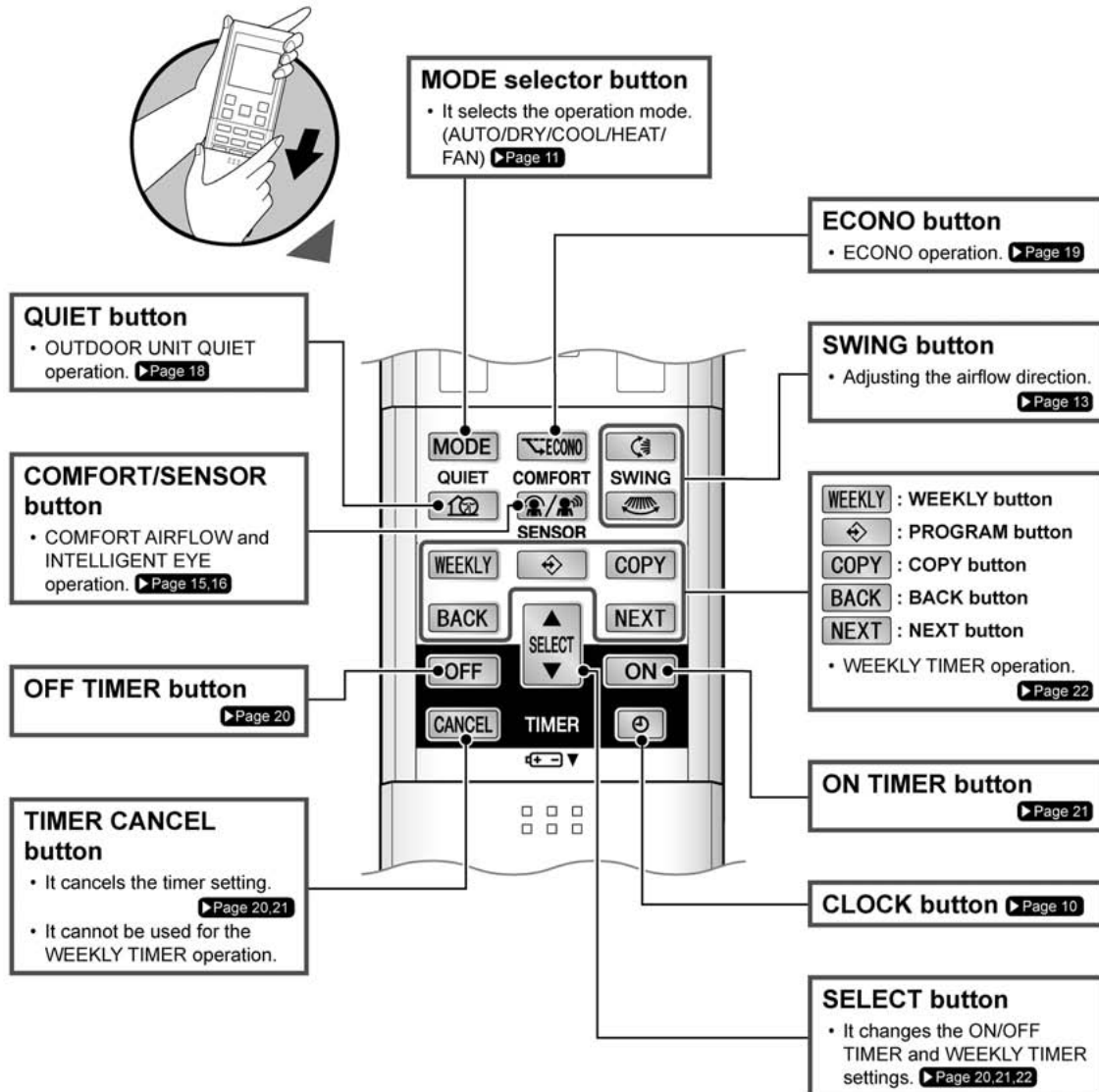
- Press this button once to start operation. Press once again to stop it. [▶ Page 11](#)

Front cover

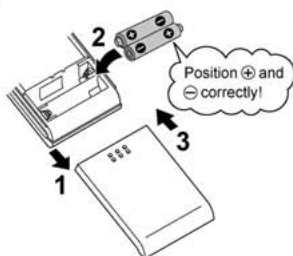
- Open the front cover. [▶ Page 8](#)

HEAT PUMP model	ARC452A4
COOLING ONLY model	ARC452A13

■ Open the front cover



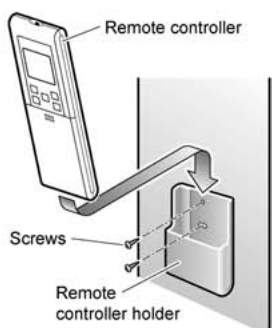
Preparation before Operation



■ To set the batteries

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

■ To fix the remote controller holder on the wall



1. Choose a place from where the signals reach the unit.
2. Fix the holder to a wall, a pillar, etc. with the screws supplied with the holder.
3. Place the remote controller in the remote controller holder.

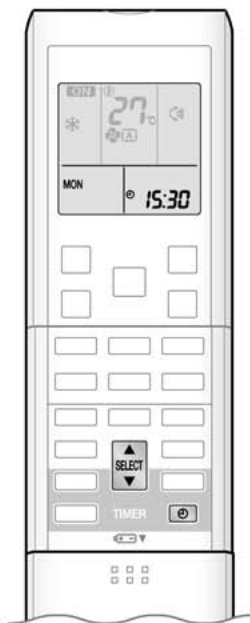
NOTE

■ Notes on batteries

- When replacing the batteries, use batteries of the same type, and replace the 2 old batteries together.
- When the system is not used for a long time, take the batteries out.
- The batteries will last for approx. 1 year. If the remote controller display begins to fade and the degradation of reception performance occurs within a year, however, replace both 2 batteries with new, size AAA.LR03 (alkaline).
- The attached batteries are provided for the initial use of the system.
The usable period of the batteries may be short depending on the manufactured date of the air conditioner.

■ Notes on remote controller

- Never expose the remote controller to direct sunlight.
- Dust on the signal transmitter or receiver will reduce the sensitivity. Wipe off dust with soft cloth.
- Signal communication may be disabled if an electronic-starter-type fluorescent lamp (such as inverter-type lamps) is in the room. Consult the shop if that is the case.
- If the remote controller signals happen to operate another appliance, move that appliance to somewhere else, or consult the service shop.



■ Turn the breaker on

- Turning on the breaker opens once and closes the flap. (This is a normal procedure.)

■ To set the clock

1. Press .



- "0:00" is displayed.
- "MON" and "⏻" blinks.

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

3. Press .



- "⏻" blinks.

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

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

5. Press .

- Always point the remote controller at the indoor unit when pressing the buttons when setting the indoor unit's internal clock.



- "⏻" blinks.

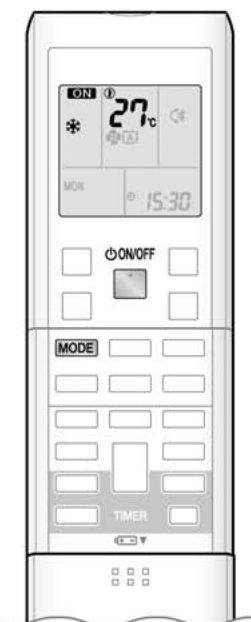
NOTE

■ Note on setting the clock

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



AUTO · DRY · COOL · HEAT · FAN Operation



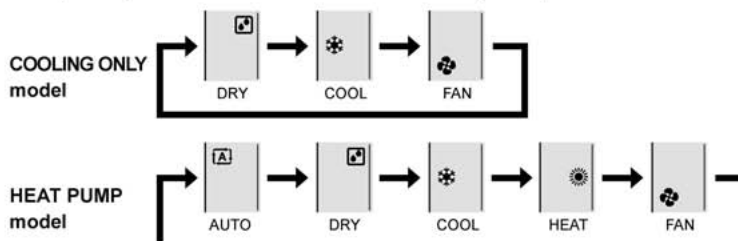
The air conditioner operates with the operation mode of your choice.

From the next time on, the air conditioner will operate with the same operation mode.

To start operation

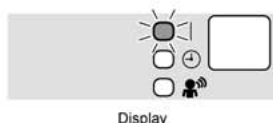
1. Press **MODE** and select a operation mode.

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



2. Press **ON/OFF**.

- "ON" is displayed on the LCD.
- The OPERATION lamp lights up.



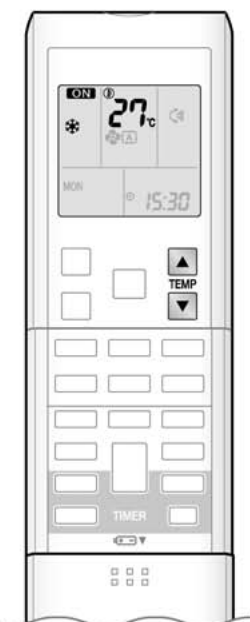
To stop operation

Press **ON/OFF** again.

- "ON" is disappears from the LCD.
- The OPERATION lamp goes off.

NOTE

MODE	Notes on each operation mode
HEAT	<ul style="list-style-type: none"> Since this air conditioner heats the room by taking heat from outdoor air to indoors, the heating capacity becomes smaller in lower outdoor temperatures. If the heating effect is insufficient, it is recommended to use another heating appliance in combination with the air conditioner. The heat pump system heats the room by circulating hot air around all parts of the room. After the start of heating operation, it takes some time before the room gets warmer. In heating operation, frost may occur on the outdoor unit and lower the heating capacity. In that case, the system switches into defrosting operation to take away the frost. During defrosting operation, hot air does not flow out of indoor unit.
COOL	<ul style="list-style-type: none"> This air conditioner cools the room by blowing the hot air in the room outside, so if the outside temperature is high, the performance of the air conditioner drops.
DRY	<ul style="list-style-type: none"> The computer chip works to rid the room of humidity while maintaining the temperature as much as possible. It automatically controls temperature and airflow rate, so manual adjustment of these functions is unavailable.
AUTO	<ul style="list-style-type: none"> In AUTO operation, the system selects a temperature setting and an appropriate operation mode (COOL or HEAT) based on the room temperature at the start of the operation. The system automatically reselects setting at a regular interval to bring the room temperature to user-setting level.
FAN	<ul style="list-style-type: none"> This mode is valid for fan only.



■ To change the temperature setting

Press  or  .

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

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

■ Operating conditions

■ Recommended temperature setting

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

■ Tips for saving energy

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

■ Notes on the operating conditions

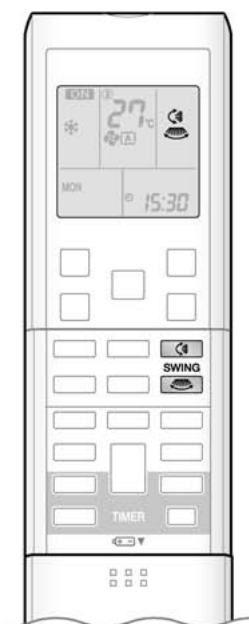
- The air conditioner always consumes 15-35W of electricity even while it is not operating.
- If you are not going to use the air conditioner for a long period, for example in spring or autumn, turn the breaker off.
- Use the air conditioner in the following conditions.

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

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



Adjusting the Airflow Direction and Rate



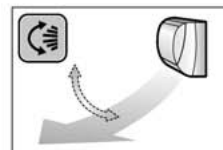
You can adjust the airflow direction to increase your comfort.

■ To start auto swing

Upper and lower airflow direction

Press .

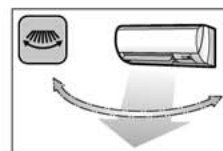
- "↕" is displayed on the LCD.
- The flaps (horizontal blades) will begin to swing.



Right and left airflow direction



Press .

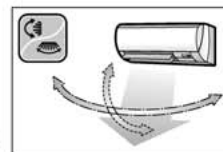
- "↔" is displayed on the LCD.
- The louvers (vertical blades) will begin to swing.



The 3-D airflow direction

Press  and .

- "↕" and "↔" are displayed on the LCD.
- The flaps and louvers move in turn.
- To cancel 3-D airflow, press either  or  again. The flaps or louvers will stop moving.

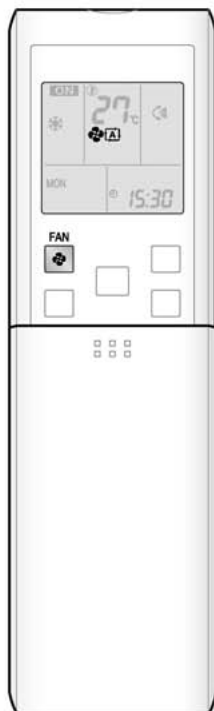


■ To set the flaps or louvers at desired position

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


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

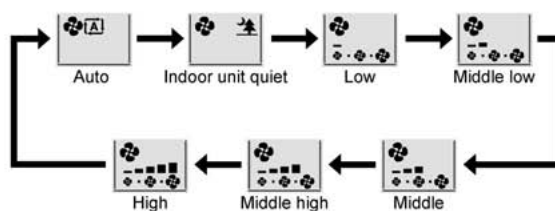
- In the 3-D airflow, the flaps and louvers move in turn.
- "↕" or "↔" disappears from the LCD.




■ To adjust the airflow rate setting

Press .

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

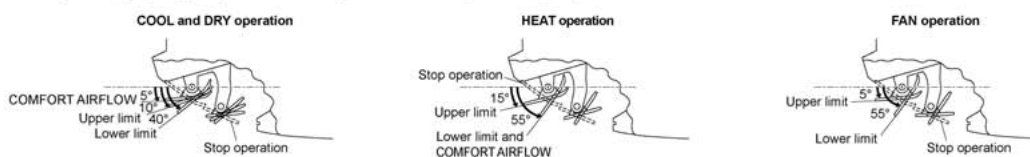


- When the airflow is set to "  ", indoor unit quiet operation will start and the noise from the unit will become quieter.
- In indoor unit quiet operation, the airflow rate is set to a weak level.
- In DRY mode, the airflow rate setting is not variable.

NOTE

■ Note on the angles of the flaps

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



■ Note on 3-D airflow

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

■ Note on airflow rate setting

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

⚠ CAUTION

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



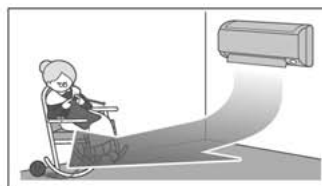
COMFORT AIRFLOW / INTELLIGENT EYE Operation

COMFORT AIRFLOW operation

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



COOL operation

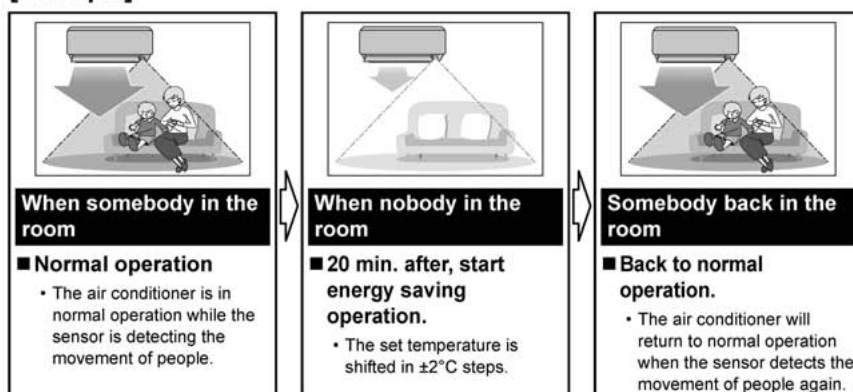


HEAT operation

INTELLIGENT EYE operation

"INTELLIGENT EYE" is the infrared sensor which detects the human movement. If nobody in the room for more than 20 minutes, the operation automatically changes to energy saving operation.

[Example]



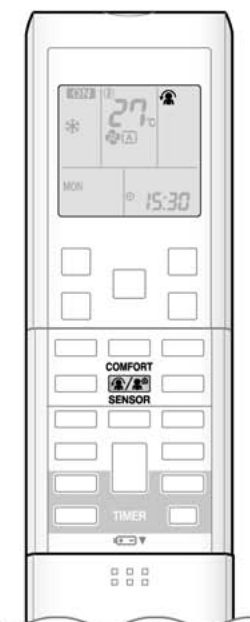
INTELLIGENT EYE operation is useful for energy saving

Energy saving operation

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




Combination COMFORT AIRFLOW and INTELLIGENT EYE operation

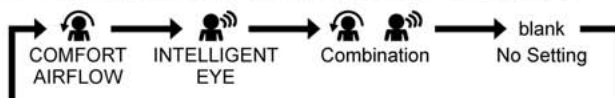
The air conditioner can go into operation with the COMFORT AIRFLOW and INTELLIGENT EYE functions combined.



■ To start operation

Press  and select the desired mode.

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



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

■ To cancel operation

Press  and select "blank" on the LCD.

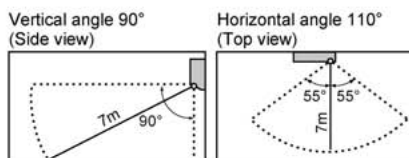
NOTE


■ Notes on COMFORT AIRFLOW operation

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

■ Notes on INTELLIGENT EYE operation

- Application range is as follows.



- Sensor may not detect moving objects further than 7m away. (Check the application range)
- Sensor detection sensitivity changes according to indoor unit location, the speed of passersby, temperature range, etc.
- The sensor also mistakenly detects pets, sunlight, fluttering curtains and light reflected off of mirrors as passersby.
- INTELLIGENT EYE operation will not go on during POWERFUL operation.
- NIGHT SET MODE  Page 20 will not go on during use of INTELLIGENT EYE operation.

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

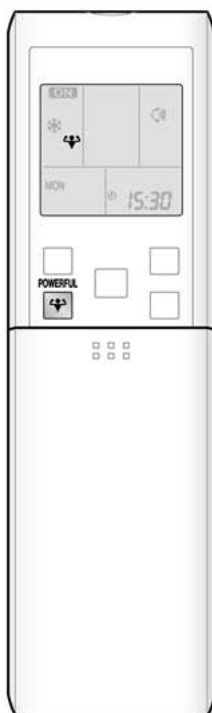
- The airflow rate will be set to AUTO. If the upper and lower airflow direction is selected, the COMFORT AIRFLOW operation will be canceled. Priority is given to the function of whichever button is pressed last.

CAUTION

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




POWERFUL Operation



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

■ To start POWERFUL operation

Press  during operation.

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

■ To cancel POWERFUL operation

Press  again.

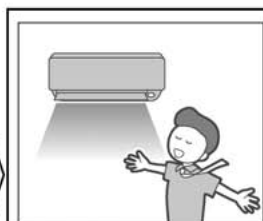
- "" disappears from the LCD.

[Example]



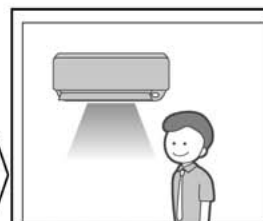
■ Normal operation

- When you want to get the cooling effect quickly, start the powerful operation.



■ POWERFUL operation



- POWERFUL operation will work for 20 minutes.



■ Back to normal operation

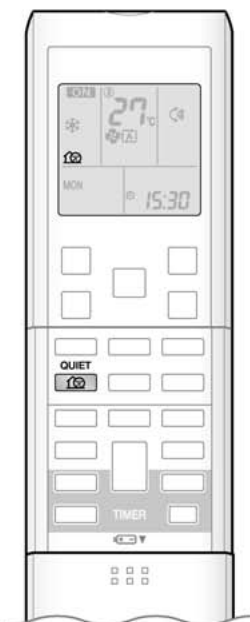
NOTE

■ Notes on POWERFUL operation

- When using POWERFUL operation, there are some functions which are not available.
- POWERFUL operation cannot be used together with ECONO, COMFORT AIRFLOW or OUTDOOR UNIT QUIET operation. Priority is given to the function of whichever button is pressed last.
- POWERFUL operation can only be set when the unit is running. Pressing  causes the settings to be canceled, and the "" disappears from the LCD.
- POWERFUL operation will not increase the capacity of the air conditioner if the air conditioner is already in operation with its maximum capacity demonstrated.
- **In COOL and HEAT mode**
To maximize the cooling (heating) effect, the capacity of outdoor unit must be increased and the airflow rate be fixed to the maximum setting. The temperature and airflow settings are not variable.
- **In DRY mode**
The temperature setting is lowered by 2.5°C and the airflow rate is slightly increased.
- **In FAN mode**
The airflow rate is fixed to the maximum setting.
- **In AUTO mode**
To maximize the cooling (heating) effect, the capacity of outdoor unit must be increased and the airflow rate be fixed to the maximum setting.



OUTDOOR UNIT QUIET Operation



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

■ To start OUTDOOR UNIT QUIET operation

Press .

-  is displayed on the LCD.

■ To cancel OUTDOOR UNIT QUIET operation

Press  again.

-  disappears from the LCD.


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



- The noise level of the outdoor unit will be lower.
This is convenient when you need to consideration for your neighborhood.

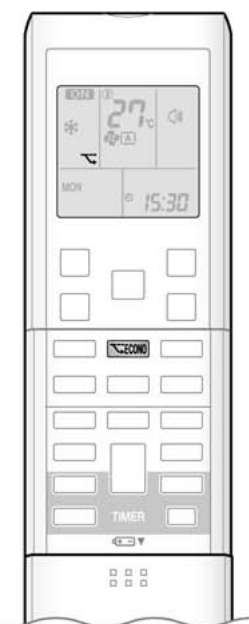
NOTE

■ Notes on OUTDOOR UNIT QUIET operation

- If using a multi system, this function will work only when the OUTDOOR UNIT QUIET operation is set on all operated indoor units. However, if using priority room setting, refer to "Note for multi system". ▶Page 28
- This function is available in COOL, HEAT, and AUTO mode.
This is not available in FAN and DRY mode.
- POWERFUL operation and OUTDOOR UNIT QUIET operation cannot be used at the same time.
Priority is given to the function of whichever button is pressed last.
- Even the operation is stopped using the remote controller or the main unit ON/OFF switch when using OUTDOOR UNIT QUIET operation,  will remain on the remote controller display.
- OUTDOOR UNIT QUIET operation will drop neither the frequency nor fan speed if they have been already dropped low enough.



ECONO Operation



ECONO operation is a function which enables efficient operation by limiting the maximum power consumption value.

This function is useful for cases in which attention should be paid to ensure a circuit breaker will not trip when the product runs alongside other appliances.

■ To start ECONO operation

Press  during operation.

-  is displayed on the LCD.

■ To cancel ECONO operation

Press  again.

-  disappears from the LCD.

[Example]

Normal operation

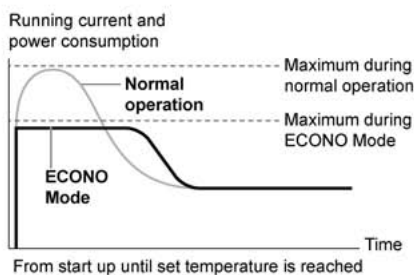


- In case the air conditioner and other appliances which require high power consumption are used at same time, a circuit breaker may trip if the air conditioner operate with its maximum capacity.

ECONO operation





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



- This diagram is a representation for illustrative purposes only. The maximum running current and power consumption of the air conditioner in ECONO mode vary with the connecting outdoor unit.

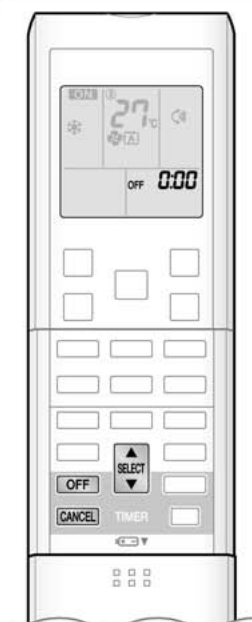
NOTE

■ Notes on ECONO operation

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



OFF TIMER Operation



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

■ To use OFF TIMER operation

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

1. Press **OFF**.



"0:00" is displayed on the LCD.
"OFF" blinks.

- "⊙" and day of the week disappear from the LCD.

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

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

3. Press **OFF** again.

- "OFF" and setting time are displayed on the LCD.
- The TIMER lamp lights up.



Display

■ To cancel OFF TIMER operation

Press **CANCEL**.

- "OFF" and setting time disappear from the LCD.
- "⊙" and day of the week are displayed on the LCD.
- The TIMER lamp goes off.

NOTE

■ Notes on TIMER operation

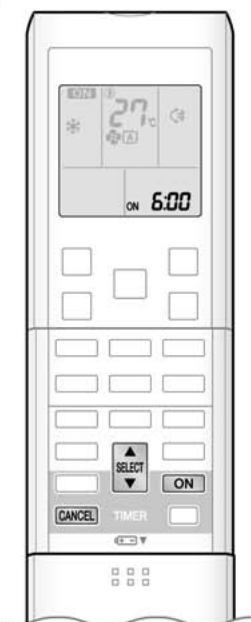
- When TIMER is set, the present time is not displayed.
- Once you set ON/OFF TIMER, the time setting is kept in the memory. The memory is canceled when remote controller batteries are replaced.
- When operating the unit via the ON/OFF timer, the actual length of operation may vary from the time entered by the user. (Maximum approx. 10 minutes)

■ NIGHT SET MODE

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



ON TIMER Operation



■ To use ON TIMER operation

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

1. Press **ON**.



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

- "⊕" and day of the week disappear from the LCD.

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

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

3. Press **ON** again.

- "ON" and setting time are displayed on the LCD.
- The TIMER lamp lights up.



Display

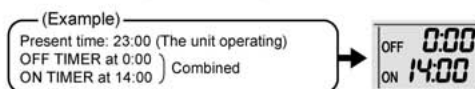
■ To cancel ON TIMER operation

Press **CANCEL**.

- "ON" and setting time disappear from the LCD.
- "⊕" and day of the week are displayed on the LCD.
- The TIMER lamp goes off.

■ To combine ON TIMER and OFF TIMER

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



NOTE

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



WEEKLY TIMER Operation

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

■ Using in these cases of WEEKLY TIMER

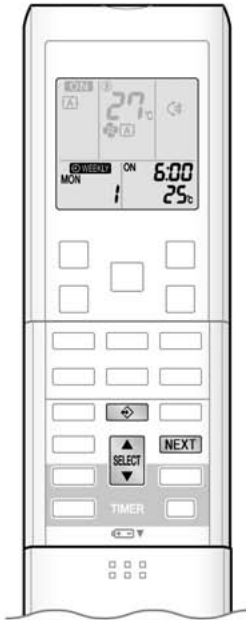
Example: The same timer settings are made for the week from Monday through Friday while different timer settings are made for the weekend.

[Monday]	<p>Make timer settings up to programs 1-4. ▶Page 23</p> <div> <div>Program 1 ON 25°C 6:00 8:30</div> <div>Program 2 OFF 8:30</div> <div>Program 3 ON 27°C 17:30 22:00</div> <div>Program 4 OFF 22:00</div> </div>
[Tuesday] to [Friday]	<p>Use the copy mode to make settings for Tuesday to Friday, because these settings are the same as those for Monday. ▶Page 25</p> <div> <div>Program 1 ON 25°C 6:00 8:30</div> <div>Program 2 OFF 8:30</div> <div>Program 3 ON 27°C 17:30 22:00</div> <div>Program 4 OFF 22:00</div> </div>
[Saturday]	No timer settings
[Sunday]	<p>Make timer settings up to programs 1-4. ▶Page 23</p> <div> <div>Program 1 ON 25°C 8:00 10:00</div> <div>Program 2 OFF 10:00</div> <div>Program 3 OFF 19:00</div> <div>Program 4 ON 21:00 27°C</div> </div>

- Up to 4 reservations per day and 28 reservations per week can be set in the WEEKLY TIMER. The effective use of the copy mode ensures ease of making reservations.
- The use of ON-ON-ON-ON settings, for example, makes it possible to schedule operating mode and set temperature changes. Furthermore, by using OFF-OFF-OFF-OFF settings, only the turn off time of each day can be set. This will turn off the air conditioner automatically if the user forgets to turn it off.



WEEKLY TIMER Operation

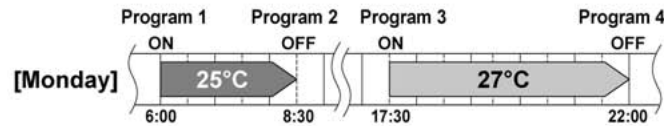


■ To use WEEKLY TIMER operation

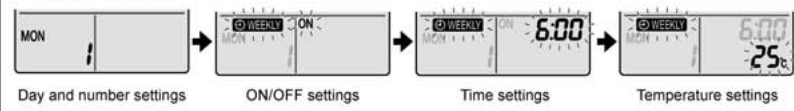
Setting mode

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

▶ Page 10



Setting Displays



1. Press .

- The day of the week and the reservation number of the current day will be displayed.
- 1 to 4 settings can be made per day.


2. Press to select the desired day of the week and reservation number.

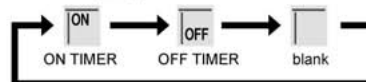
- Pressing  changes the reservation number and the day of the week.

3. Press .

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

4. Press to select the desired mode.

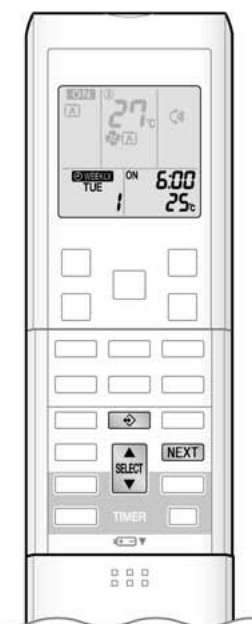
- Pressing  changes "ON" or "OFF" setting in sequence.



- In case the reservation has already been set, selecting "blank" deletes the reservation.
- Go to STEP 9 if "blank" is selected.

5. Press .

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



6. Press to select the desired time.

- The time can be set between 0:00 and 23:50 in 10 minute intervals.
- To return to the ON/OFF TIMER mode setting, press **BACK**.
- Go to **STEP 9** when setting the OFF TIMER.

7. Press .

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

8. Press to select the desired temperature.

- The temperature can be set between 10°C and 32°C.
Cooling: The unit operates at 18°C even if it is set at 10 to 17°C.
Heating: The unit operates at 30°C even if it is set at 31 to 32°C.
- To return to the time setting, press **BACK**.
- The set temperature is only displayed when the mode setting is on.

9. Press .

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

10. Press to complete the setting.

- Be sure to direct the remote controller toward the indoor unit and check for a receiving tone and flashing the operation lamp.
- "WEEKLY" is displayed on the LCD and WEEKLY TIMER operation is activated.
- The TIMER lamp lights up.




Display

- A reservation made once can be easily copied and the same settings used for another day of the week. Refer to **Copy mode**. ▶Page 25

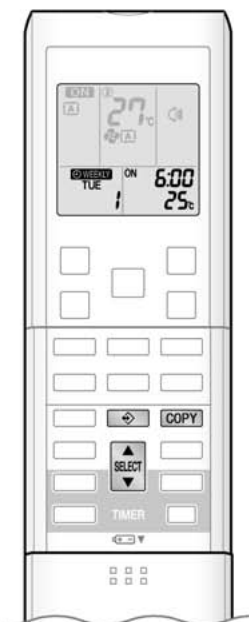
NOTE

■ Notes on WEEKLY TIMER operation

- Do not forget to set the clock on the remote controller first. ▶Page 10
- The day of the week, ON/OFF TIMER mode, time and set temperature (only for ON TIMER mode) can be set with WEEKLY TIMER. Other settings for ON TIMER are based on the settings just before the operation.
- Both WEEKLY TIMER and ON/OFF TIMER operation cannot be used at the same time. The ON/OFF TIMER operation has priority if it is set while WEEKLY TIMER is still active. The WEEKLY TIMER will go into standby state, and "WEEKLY" will disappear from the LCD. When ON/OFF TIMER is up, the WEEKLY TIMER will automatically become active.
- Only the time and set temperature set with the WEEKLY TIMER are sent with the . Set the WEEKLY TIMER only after setting the operation mode, the airflow rate and the airflow direction ahead of time.
- Shutting the breaker off, power failure, and other similar events will render operation of the indoor unit's internal clock inaccurate. Reset the clock. ▶Page 10
- The **BACK** can be used only for the time and temperature settings. It cannot be used to go back to the reservation number.

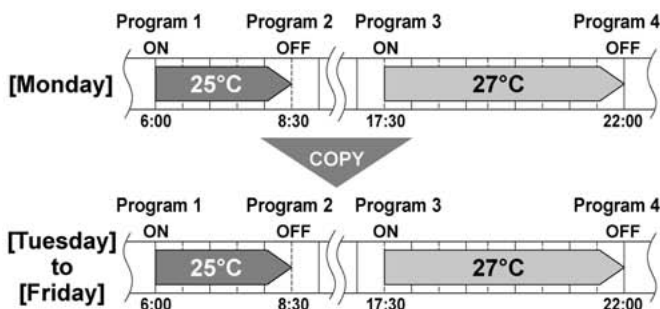


WEEKLY TIMER Operation

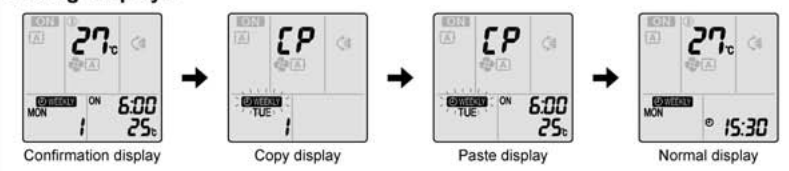


Copy mode

- A reservation made once can be copied to another day of the week. The whole reservation of the selected day of the week will be copied.



Setting Displays

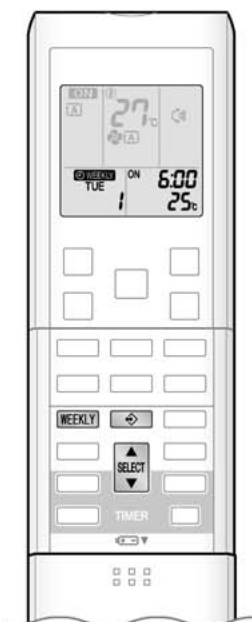


1. Press .
2. Press to confirm the day of the week to be copied.
3. Press .
- The whole reservation of the selected day of the week will be copied.
4. Press to select the destination day of the week.
5. Press .
- The reservation will be copied to the selected day of the week. The whole reservation of the selected day of the week will be copied.
- To continue copying the settings to other days of the week, repeat STEP 4 and STEP 5.
6. Press to complete the setting.
- "ON WEEKLY" is displayed on the LCD and WEEKLY TIMER operation is activated.

NOTE

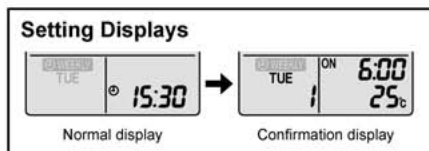
■ Note on COPY MODE

- The entire reservation of the source day of the week is copied in the copy mode.
- In the case of making a reservation change for any day of the week individually after copying the content of weekly reservations, press and change the settings in the steps of **Setting mode**. **Page 23**



■ Confirming a reservation


- The reservation can be confirmed.



1. Press .

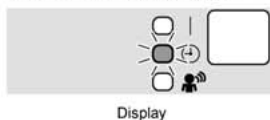
- The day of the week and the reservation number of the current day will be displayed.

2. Press to select the day of the week and the reservation number to be confirmed.

- Pressing  displays the reservation details.
- To change the confirmed reserved settings, select the reservation number and press **NEXT**.
The mode is switched to setting mode. Go to **Setting mode** STEP 4. ▶ Page 23

3. Press to exit confirming mode.

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



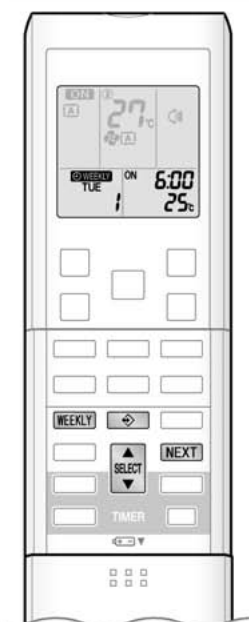
■ To deactivate WEEKLY TIMER operation

Press **WEEKLY** while "WEEKLY" is displayed on the LCD.

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



WEEKLY TIMER Operation



■ To delete reservations

The individual reservation

1. Press .
 - The day of the week and the reservation number will be displayed.
2. Press to select the day of the week and the reservation number to be deleted.
3. Press **NEXT**.
 - "ON WEEKLY" and "ON" or "OFF" blink.
4. Press and select "blank".
 - Pressing changes ON/OFF TIMER mode.
 - The reservation will be no setting with selecting "blank".

```

graph LR
    A[ON TIMER] --> B[OFF TIMER]
    B --> C[blank]
    
```
5. Press **NEXT**.
 - The selected reservation will be deleted.
6. Press .
 - If there are still other reservations, WEEKLY TIMER operation will be activated.

The reservations for each day of the week

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

1. Press to select the day of the week to be deleted.
2. Hold **WEEKLY** for 5 seconds.
 - The reservation of the selected day of the week will be deleted.

All reservations

Hold **WEEKLY** for 5 seconds while normal display.

- Be sure to direct the remote controller toward the indoor unit and check for a receiving tone.
- This operation is not effective while WEEKLY TIMER is being set.
- All reservations will be deleted.

Note for Multi System

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

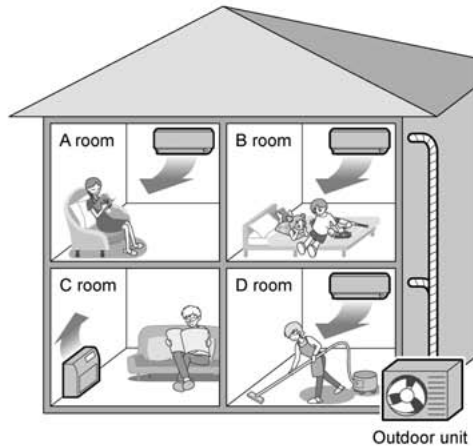
■ Selecting the operation mode

With the priority room setting present but inactive or not present.

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

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

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



NOTE

■ Notes on operation mode for multi system

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

⚠ CAUTION

- Normally, the operation mode in the room where the unit is first run is given priority, but the following situations are exceptions, so please keep this in mind.

If the operation mode of the first room is **FAN mode**, then using **HEAT mode** in any room after this will give priority to **HEAT**. In this situation, the air conditioner running in FAN mode will go on standby, and the operation lamp will flash.

With the priority room setting active.

Refer to "Priority room setting" on the next page.

■ NIGHT QUIET mode (Available only for COOL operation)

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

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

■ OUTDOOR UNIT QUIET operation

Refer to "OUTDOOR UNIT QUIET operation". ▶Page 18

With the priority room setting present but inactive or not present.

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

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

We recommend you release all rooms using their remote controllers.

With the priority room setting active.

Refer to "Priority room setting" on the next page.

Note for Multi System

■ COOL / HEAT mode lock

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

■ Priority room setting

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

Operation mode priority

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

[Example]

- Room A is the priority room in the examples.

When COOL mode is selected in room A while operating the following modes in room B, C and D :

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

Priority when POWERFUL operation is used

[Example]

- Room A is the priority room in the examples.

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

Priority when using OUTDOOR UNIT QUIET operation

[Example]

- Room A is the priority room in the examples.

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

Care and Cleaning

■ Quick reference

How to open / close the front panel

- Hold the front panel by the panel tabs on the 2 sides and open it.
- Press the front panel at both sides and the center to close it.

Cleaning parts

Front panel

- Wipe it with dry soft cloth.

If bothered by dirt

Refer to ►Page 31

Air filter

- Vacuum dust or wash filter.

Once every 2 weeks

Refer to ►Page 32

Titanium apatite photocatalytic air-purifying filter

- Vacuum dust or replace the filter.

[Cleaning]

Once every 6 months

Refer to ►Page 33

[Replacement]

Once every 3 years

Refer to ►Page 33

Indoor unit, Outdoor unit and Remote controller

- Wipe them with soft cloth.

If bothered by dirt

Notes on cleaning

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

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



⚠ CAUTION

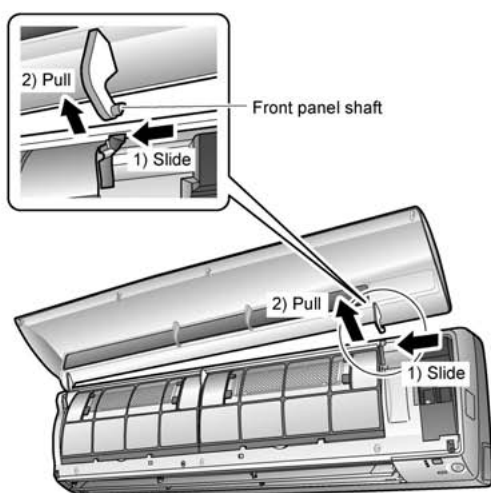
- Before cleaning, be sure to stop the operation and turn the breaker off.
- Do not touch the metal parts of the indoor unit. If you touch those parts, this may cause an injury.

Care and Cleaning

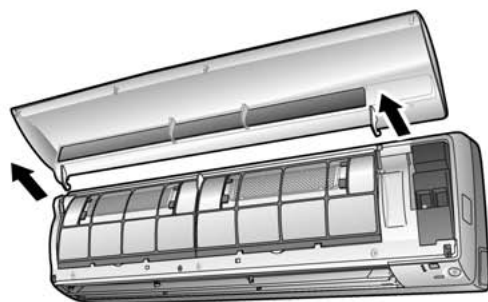
■ Front panel

1. Remove the front panel.

- Open the front panel.
- Slide the front panel to either the left or right and pulling it toward you.
This will disconnect the rotation dowel on one side.



- Disconnect the front panel shaft on the other side in the same manner.

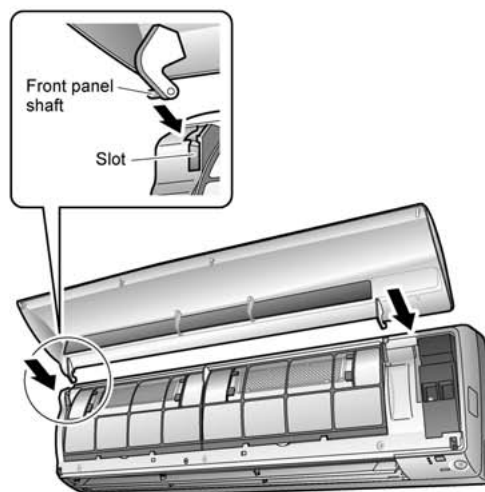


2. Clean the front panel.

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

3. Attach the front panel.

- Align the front panel shaft on the left and right of the front panel with the slots, then push them all the way in.



- Close the front panel slowly. (Press the panel at both sides and the center.)

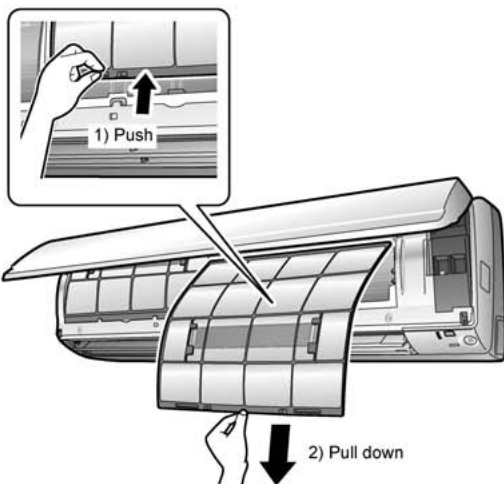
⚠ CAUTION

- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent it from falling.
- After cleaning, make sure that the front panel is securely fixed.

■ Air filter

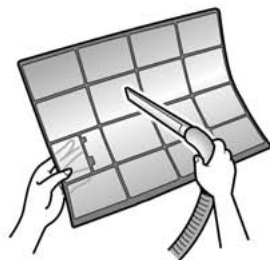
1. Pull out the air filters.

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



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

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



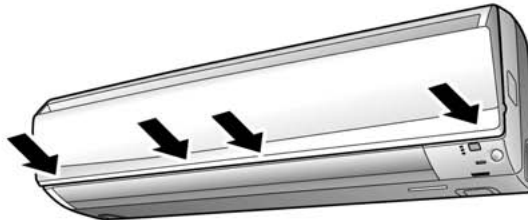
If the dust does not come off easily

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



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

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



⚠ CAUTION

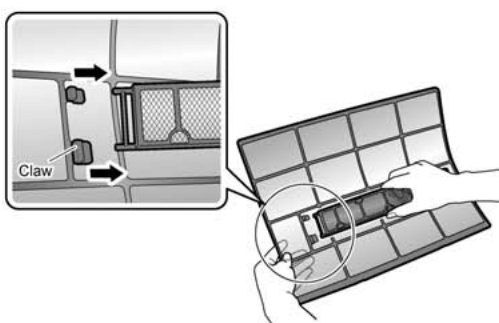
- Do not touch the aluminum fins by bare hand at the time of dismantling or mounting the filter.

Care and Cleaning

■ Titanium apatite photocatalytic air-purifying filter

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

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



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

[Maintenance]

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

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

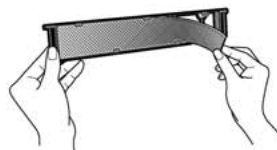


2-2 After washing, shake off remaining water and dry in the shade.

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

[Replacement]

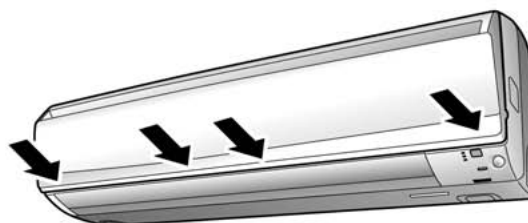
Remove the tabs on the filter frame and replace with a new filter.



- 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.

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

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



NOTE

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



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

■ Check the units

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

■ Before a long idle period


1. Operate the “FAN only” for several hours on a fine day to dry out the inside.

- Press **MODE** and select “” operation.
- Press  and start operation.

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

3. Clean the air filters and set them again.

4. Take out batteries from the remote controller.

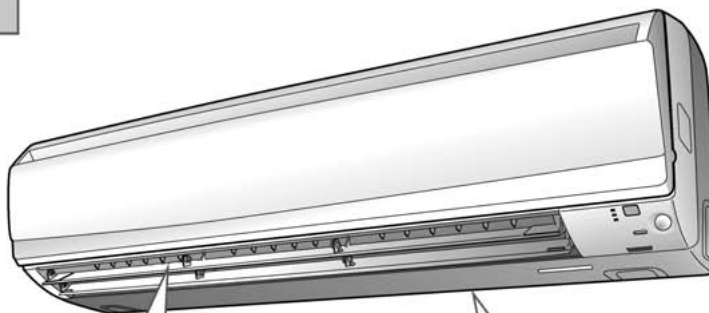
- When a multi outdoor unit is connected, make sure the heating operation is not used at the other room before you use the fan operation.  **Page 28**

Troubleshooting

■ These cases are not troubles.

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

Indoor unit



The flaps does not start swing immediately.

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

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

- The system is taking away the frost on the outdoor unit. You should wait for about 4 to 12 minutes.

Operation does not start soon.

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

A sound is heard.

■ A sound like a flow of water

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

■ Blowing sound

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

■ Pinging sound

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

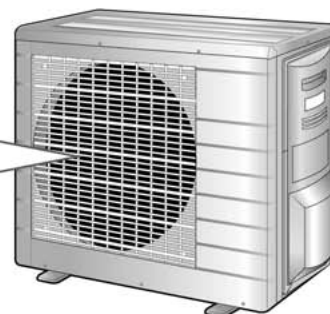
■ Whistling sound

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

Outdoor unit

The outdoor unit emits water or steam.

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



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



Not trouble

- These cases are not troubles.



Check

- Please check again before calling a repair person.

The air conditioner does not operate. (OPERATION lamp is off.)

- Hasn't a breaker turned off or a fuse blown?
- Isn't it a power failure?
- Are batteries set in the remote controller?
- Is the timer setting correct?



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

- The air conditioner is warming up. You should wait for 1 to 4 minutes. (The system is designed to start discharging air only after it has reached a certain temperature.)



Operation stopped suddenly. (OPERATION lamp is on.)

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



Operation stopped suddenly. (OPERATION lamp flashes.)

- Are the air filters clean?
- Is there anything to block the air inlet or the outlet of the indoor and the outdoor units?
- Clean the air filters or take all obstacles away and turn the breaker off. Then turn it on again and try operating the air conditioner with the remote controller. If the lamp still flashes, call the service shop where you bought the air conditioner.
- Are operation modes all the same for indoor units connected to outdoor units in the **multi system**? If not, set all indoor units to the same operation mode and confirm that the lamps flash. Moreover, when the operation mode is in "AUTO", set all indoor unit operation modes to "COOL" or "HEAT" for a moment and check again that the lamps are normal. If the lamps stop flashing after the above steps, there is no malfunction. ▶Page 28



Mist comes out of the indoor unit.

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



Troubleshooting

Cooling (Heating) effect is poor.

- Are the air filters clean?
- Is there anything to block the air inlet or the outlet of the indoor and the outdoor units?
- Is the temperature setting appropriate?
- Are the windows and doors closed?
- Are the airflow rate and the airflow direction set appropriately?



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

- Check if the ON/OFF TIMER and the WEEKLY TIMER are set to the same time. Change or deactivate the settings in the WEEKLY TIMER. ▶Page 22



Remote controller does not work properly.

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



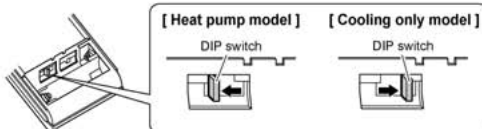
The indoor unit gives out odour.

- This happens when smells of the room, furniture, or cigarettes are absorbed into the unit and discharged with the airflow.
(If this happens, we recommend you to have the indoor unit washed by a technician. Consult the service shop where you bought the air conditioner.)



The operation mode display of the remote controller is unusual.

- Heating cannot be selected, even though the unit is heat pump model.
 - Slide the DIP switch to the left as shown in the illustration so that the HEAT mode can be selected with the MODE selector button.
- The LCD displays AUTO and HEAT operation modes though the unit is a cooling only model.
 - Slide the DIP switch to the right as shown in the illustration so that the AUTO and HEAT mode displays will disappear.



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

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



An abnormal functioning happens during operation.

- 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.



■ Call the service shop immediately

WARNING

- **When an abnormality (such as a burning smell) occurs, stop operation and turn the breaker off.**
 - Continued operation in an abnormal condition may result in troubles, electric shocks or fire.
 - Consult the service shop where you bought the air conditioner.
- **Do not attempt to repair or modify the air conditioner by yourself.**
 - Incorrect work may result in electric shocks or fire.
 - Consult the service shop where you bought the air conditioner.

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

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

Turn the breaker off and call the service shop.



■ After a power failure

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

■ Lightning

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

■ Disposal requirements

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

■ We recommend periodical maintenance

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