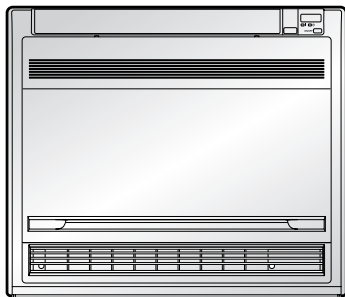


DAIKIN



DAIKIN HEAT PUMP
CONVECTOR

OPERATION MANUAL

English

Deutsch

Français

Nederlands

Español

Italiano

Ελληνικά

Portugues

Norsk

Svenska

MODELS

- ☒ FWXV15AVEB
- ☒ FWXV20AVEB



CONTENTS

READ BEFORE OPERATION

Safety Precautions	2
Names of Parts	4
Preparation before Operation.....	7

OPERATION

COOL · HEAT · FAN Operation	10
Adjusting the Airflow Direction	12
POWERFUL Operation	14
FORCED QUIET Operation	15
OFF TIMER Operation	16
ON TIMER Operation	17
WEEKLY TIMER Operation	18

CARE

Care and Cleaning	26
-------------------------	----

TROUBLESHOOTING

Troubleshooting	30
-----------------------	----

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

WARNING

Failure to follow these instructions properly may result in personal injury or loss of life.

CAUTION

Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

-  Never attempt.
-  Be sure to establish an earth connection.
-  Never touch the unit nor the remote controller with wet hands.
-  Be sure to follow the instructions.
-  Never wet the unit nor the remote controller with water.
- After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure also to hand over the manual.

WARNING

- In order to avoid fire, explosion or injury, do not operate the unit when harmful, among which flammable or corrosive gases, are detected near the unit.
- Be aware that prolonged, direct exposure to cool or warm air from the unit, 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 unit's high-speed fan blades.
- Do not attempt to repair, dismantle reinstall or modify the unit yourself as this may result in water leakage, electric shocks or fire hazards.
- Do not use flammable spray near the unit, or otherwise fire may result.
- Do not attempt to install or repair the unit 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 unit 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.
- This unit is designed for use with chilled or hot water. Using steam may damage the unit or cause it to malfunction, and can lead to a burning.
- 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 unit for purposes other than those for which it is intended. Do not use the unit for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.
- Do not expose plants or animals directly to airflow from the unit as this may cause adverse effects.
- Do not place appliances that produce naked flames in places exposed to the airflow from the unit as this may impair combustion of the burner.
- Do not block air inlets nor outlets. Impaired airflow may result in insufficient performance or trouble.
- Do not sit or place objects on the indoor unit. Falling yourself or falling objects could cause injury.
- Do not place objects that are susceptible to moisture directly beneath the indoor unit. Under certain conditions, condensation on the main unit or water 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 unit.
- The appliance is not intended for use by unattended young children or infirm persons. Impairment of bodily functions and harm to health may result.

-
- To avoid oxygen depletion, ensure that the room is adequately ventilated if equipment such as a burner is used together with the unit.
 - 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 unit 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 around the indoor unit.
Doing so may have an adverse influence on the performance, product quality, and life of the unit.
 - This appliance is not intended to be used by persons with reduced physical, sensory or mental capabilities, or with lack of operation knowledge, unless they have been given supervision or instruction concerning the appliance use by person responsible for their safety.
Keep out of children's reach to ensure that they do not play with the appliance.
 - The circulating water must conform to the specified standards. Poor quality can lead to water leakage.
 - When the unit is not going to be used for a long period, it is best not to leave water in the unit's water pipes. Either fill the pipes with an anti-freeze solution or discharge the water. Leaving water in the pipes can cause water leakage.
 - Be sure to take an anti-freeze measure to the unit not in use for a long period.
-



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



-
- Do not wash the unit 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 unit 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.
 - Do not let water in the unit freeze. If temperature in the room or ceiling drops below 0°C, water will freeze and break the heat exchanger.
- 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.

Electrical work.

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

System relocation.

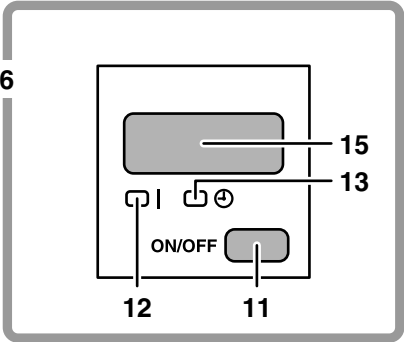
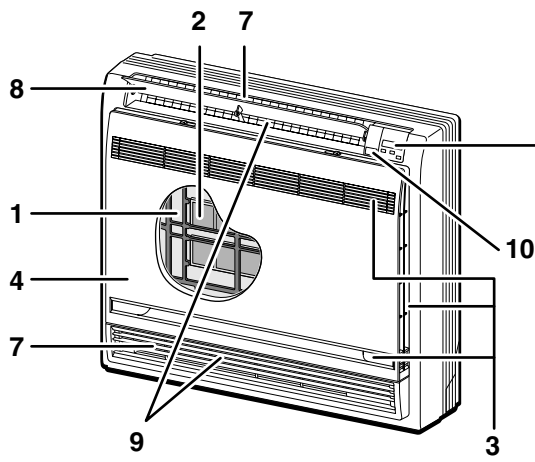
- Relocating the unit requires specialized knowledge and skills. Please consult the dealer if relocation is necessary for moving or remodeling.

Water piping.

- Wrap the pipes with an insulating material.
- To avoid corrosion of the heat exchanger, Limit the water flow to the specified volume.
- Comply with Drinking Water Directive 98/83/EC for chilled water, hot water and make up water. Copper tubes are used to treat the circulating water, it may erode the copper tube. When using a water treatment chemical, consult a water treatment chemical manufacturer and use suitable one, iron or copper, for the tubes.
- The maximum allowable pressure of the unit is 1.18MPa.

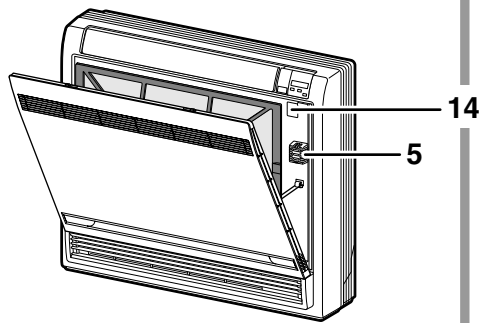
Names of Parts

Indoor Unit

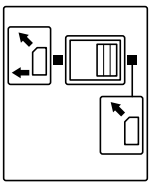


Open the front panel

How to open the front panel: (page 26)



Air outlet selection switch



- This setting blows air from upper outlet only.



- This setting automatically decides a blow pattern depending on mode and conditions.
- This setting is recommended.
- The unit is shipped from the factory with this setting.

CAUTION

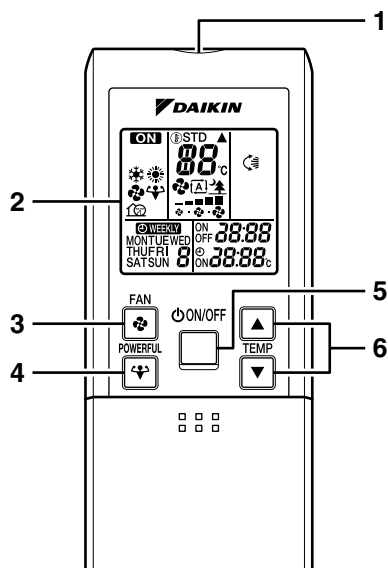
Before opening the front panel, be sure to stop the operation and turn the breaker off. Do not touch the metal parts on the inside of the indoor unit, as it may result in injury.

■ Indoor Unit

1. **Air filter**
2. **Titanium apatite photocatalytic air-purifying filter:**
 - These filters are attached to the inside of the air filter.
3. **Air inlet**
4. **Front panel**
5. **Room temperature sensor:**
 - It senses the air temperature around the unit.
6. **Display**
7. **Air outlet**
8. **Flap (horizontal blade):** (page 12)
9. **Louvers (vertical blades):**
 - The louvers are inside of the air outlet. (page 12)
10. **Model name plate**
11. **Indoor unit ON/OFF switch:**
 - The operation mode will be the mode that was in effect before the unit was stopped.
 - This switch is useful when the remote controller is missing.
12. **OPERATION lamp (green)**
13. **TIMER lamp (yellow):** (page 16)
14. **Air outlet selection switch:** (page 13)
15. **Signal receiver:**
 - It receives signals from the remote controller.
 - When the unit receives a signal, you will hear a beep sound.
 - Operation startbeep-beep
 - Settings changed.....beep
 - Operation stop long beep

Names of Parts

■ Remote Controller



<ARC452A15>

1. Signal transmitter:

- It sends signals to the indoor unit.

2. Display (LCD):

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

3. FAN setting button:

- It selects the airflow rate setting.

4. POWERFUL button:

- POWERFUL operation (page 14)

5. ON/OFF button:

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

6. TEMPERATURE adjustment buttons:

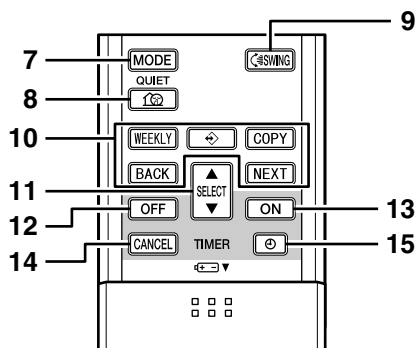
- It changes the temperature setting.

7. MODE selector button:

- It selects the operation mode.
(COOL/HEAT/FAN) (page 10)



<Open the front cover>



8. QUIET button:

- FORCED QUIET operation (page 15)

9. SWING button:

- Adjusting the airflow direction (page 12)

10. WEEKLY/PROGRAM/COPY/BACK/NEXT button:

- WEEKLY TIMER operation (page 18)

11. SELECT button:

- It changes the ON/OFF TIMER and
WEEKLY TIMER settings. (page 16, 18)

12. OFF TIMER button: (page 16)

13. ON TIMER button: (page 17)

14. TIMER CANCEL button:

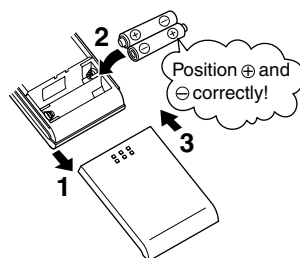
- It cancels the timer setting. (page 16, 17)
- It cannot be used for the WEEKLY TIMER operation.

15. CLOCK button: (page 8)

Preparation before Operation

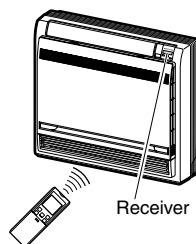
■ To set the batteries

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



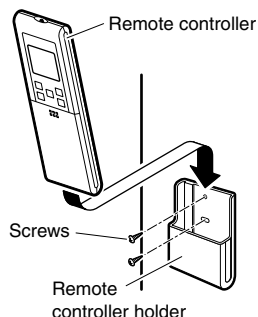
■ To operate the remote controller

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



■ To fix the remote controller holder on the wall

1. Choose a place from where the signals reach the unit.
2. Fix the holder to a wall, a pillar, or similar location with the screws procured locally.
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 both 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 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 unit.

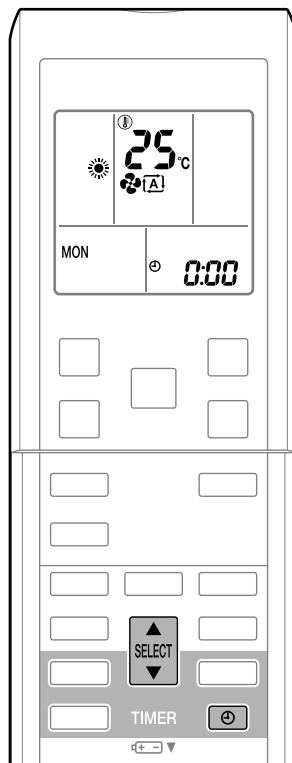
■ Notes on remote controller

- 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 shop.

Preparation before Operation

■ 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 ▼ rapidly increases or decreases the time display.
5. Press  .
 - Always point the remote controller at the indoor unit when pushing the buttons when setting the indoor unit's internal clock.
 - “.” blinks.



■ Turn the breaker on

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

NOTE

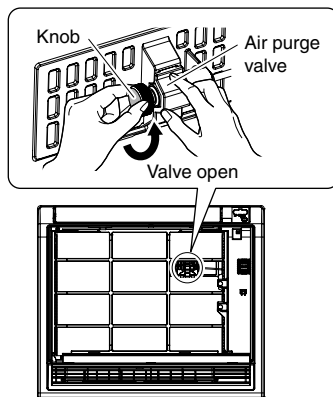
■ Note on setting the clock

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

■ Purging air

- Air pockets sometimes form in the piping during trial operation after construction work and during normal operation. To remove air pockets from inside the piping, follow the steps below to purge air from the unit. Be sure to purge air while the unit is in cooling or heating operation.

1. Remove the front panel and the air filter.
2. While pressing on the air purge valve with one hand, turn the air purge valve knob with your other hand as shown.
3. Open the valve, make sure that air has been completely purged, and then close the valve securely.

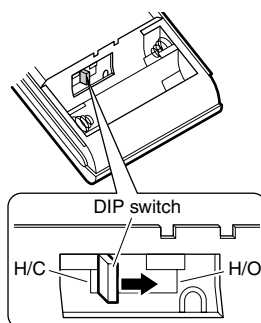


⚠ CAUTION

- There is a risk of injury if you touch the heat exchanger with your bare hand.
- Be sure to close the air purge valve after purging air. Leaving the air purge valve open may result in water leakage and decreased performance.
- Water leakage will result if the knob of the air purge valve is loose. Check that the knob is tightly closed.

■ Checks on remote controller settings

- This remote controller is common to the heating/cooling use and heating only use. Use the DIP switch on the remote controller to set the heating/cooling use or heating only use.
- Refer to the following explanation and make the setting as shown in the illustration.
 - For customers of heating/cooling use: Set to H/C
 - For customers of heating only use: Set to H/O



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 filter cause inefficient operation and waste energy. Clean them once in about every 2 weeks.

Recommended temperature setting

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

COOL · HEAT · FAN Operation

The unit operates with the operation mode of your choice.
From the next time on, the unit will operate with the same operation mode.

■ To start operation

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

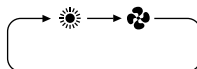
- Each pressing of the button advances the mode setting in sequence.

❄️ : COOL

☀️ : HEAT

🌀 : FAN

Heating only use



Heating/cooling use



2. Press **ON/OFF**.

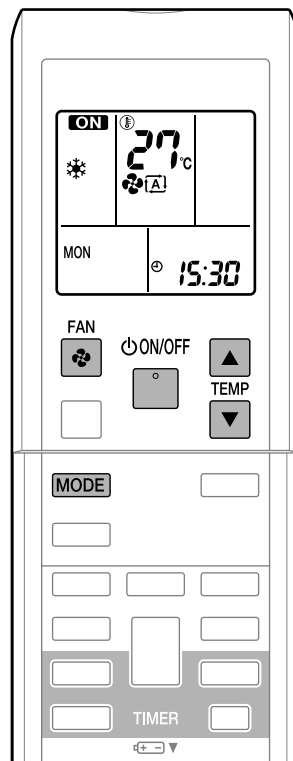
- “**ON**” is displayed on the LCD.
- The OPERATION lamp lights up.



■ To stop operation


3. Press **ON/OFF** again.

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








■ To change the temperature setting

4. Press  or  .


COOL or HEAT operation	FAN operation
Press ▲ to raise the temperature and press ▼ to lower the temperature.	The temperature setting is not variable.
Set to the temperature you like. 	

■ To change the airflow rate setting

5. Press  .

COOL or HEAT or FAN operation
5 levels of airflow rate setting from “  ” to “  ” plus “  ” “  ” are available. 

- Indoor unit quiet operation

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

NOTE

■ Note on COOL and HEAT operation

- Use the unit within the following water temperature range:
Minimum water temperature: 6°C
Maximum water temperature: 60°C


Adjusting the Airflow Direction

You can adjust the airflow direction to increase your comfort.

■ To start auto swing


Upper and lower airflow direction


Press  .

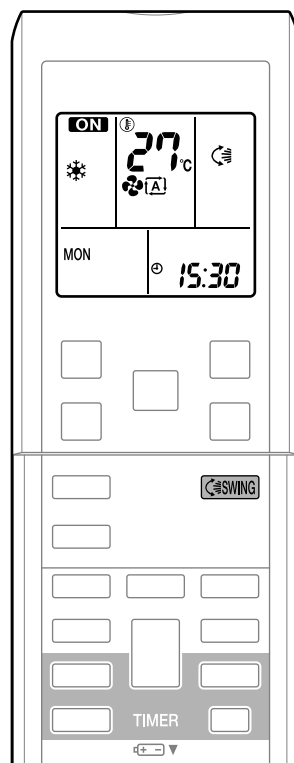
- “” is displayed on the LCD.
- The flap (horizontal blade) will begin to swing.

■ To set the flap at desired position

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

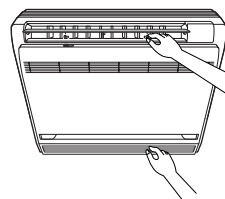
Press  when the flap has reached the desired position.

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



■ To adjust the louvers (vertical blades)

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



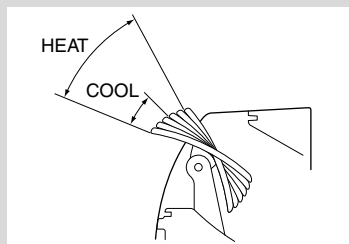
NOTE

■ Note on flap and louvers angle

- Unless “SWING” is selected, you should set the flap at a near-horizontal angle in HEAT operation and at a upward position in COOL operation to obtain the best performance.
- During COOL operation, the range within which the flap swings differs from the range within which the flap can be fixed.

■ ATTENTION

- When adjusting the flap by hand, turn off the unit, and use the remote controller to restart the unit.
- Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at a high speed.

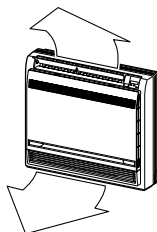


■ Airflow selection

- Make airflow selection according to what suits you.

When setting the airflow selection switch to .

- Unit automatically decides the appropriate blowing pattern depending on the operation mode/situation.

Mode	Situation	Blowing pattern
COOL	<ul style="list-style-type: none"> • When the room has become fully cool, or when one hour has passed since turning on the unit. 	<ul style="list-style-type: none"> • So that air does not come into direct contact with people, air is blown upper air outlet, room temperature is equalized.
	<ul style="list-style-type: none"> • At start of operation or other times when the room is not fully cooled. 	
HEAT	<ul style="list-style-type: none"> • At times other than below. (Normal time.) 	
	<ul style="list-style-type: none"> • At start or when air temperature is low. 	
		<ul style="list-style-type: none"> • Air is blown from the upper and lower air outlets for high speed cooling during COOL operation, and for filling the room with warm air during HEAT operation.
		<ul style="list-style-type: none"> • So that air does not come into direct contact with people. Air is blown upper air outlet.

When setting the air outlet selection switch to .

- Regardless of the operation mode or situation, air blows from the upper air outlet.
- Use this switch when you do not want air coming out of the lower air outlet. (While sleeping etc.)

CAUTION


- Do not try to adjust the flap by hand.
- When adjusting by hand, the mechanism may not operate properly or condensation may drip from air outlets.

POWERFUL Operation

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

■ To start POWERFUL operation

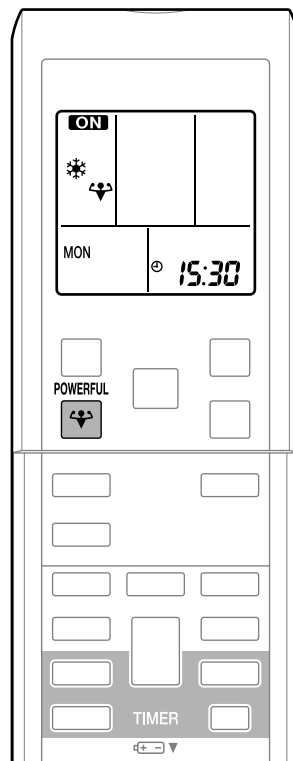
1. Press  .

- POWERFUL 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

2. Press  again.

- “” disappears from the LCD.



NOTE

■ Notes on POWERFUL operation

- POWERFUL operation cannot be used together with FORCED 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.
- **In COOL and HEAT operation**
To maximize the cooling (heating) effect, and the airflow rate be fixed to the maximum setting.
The temperature and airflow settings are not variable.
- **In FAN operation**
The airflow rate is fixed to the maximum setting.

FORCED QUIET Operation

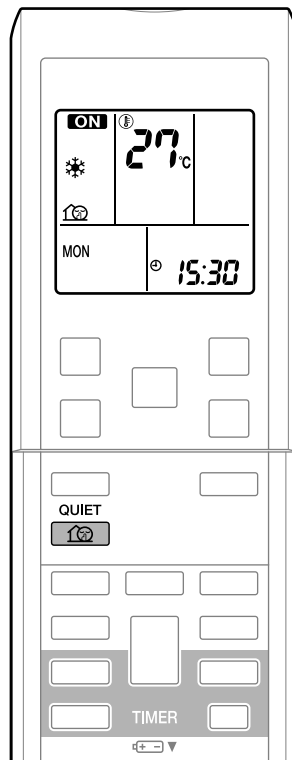
FORCED QUIET operation lowers the noise level of the indoor unit by changing the fan speed. This function is convenient during night.

■ To start FORCED QUIET operation

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

■ To cancel FORCED QUIET operation

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



NOTE

■ Notes on FORCED QUIET operation

- POWERFUL operation and FORCED QUIET operation cannot be used at the same time. Priority is given to the function of whichever button is pressed last.
- Cooling and heating capacity may be slightly lower than during normal operation.

OFF TIMER Operation

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

■ To use OFF TIMER operation

- Check that the clock is correct.

If not, set the clock to the present time. (page 8)

1. Press **OFF** .

- “OFF” and setting time are displayed on the LCD.
- “0:00” is displayed on the LCD.
- “OFF” blinks.

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 **OFF** again.

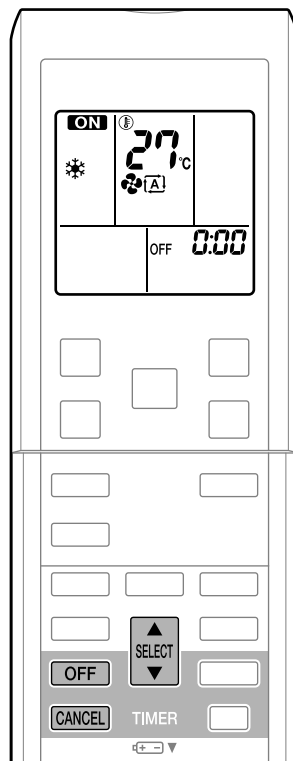
- The TIMER lamp lights up.



■ To cancel OFF TIMER operation

4. 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)

ON TIMER Operation

■ To use ON TIMER operation

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

1. Press **ON** .

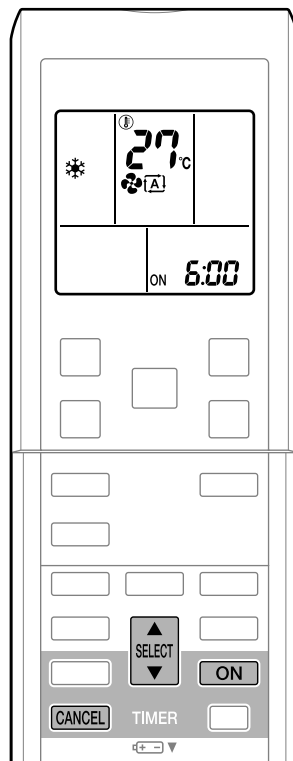
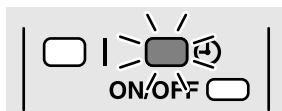
- “ON” and setting time are displayed on the LCD.
- “6:00” is displayed on the LCD.
- “ON” blinks.

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.

- The TIMER lamp lights up.



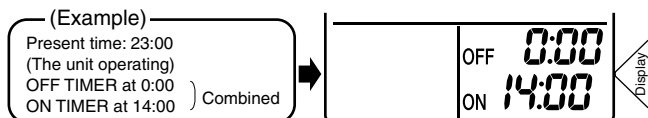
■ To cancel ON TIMER operation

4. 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.

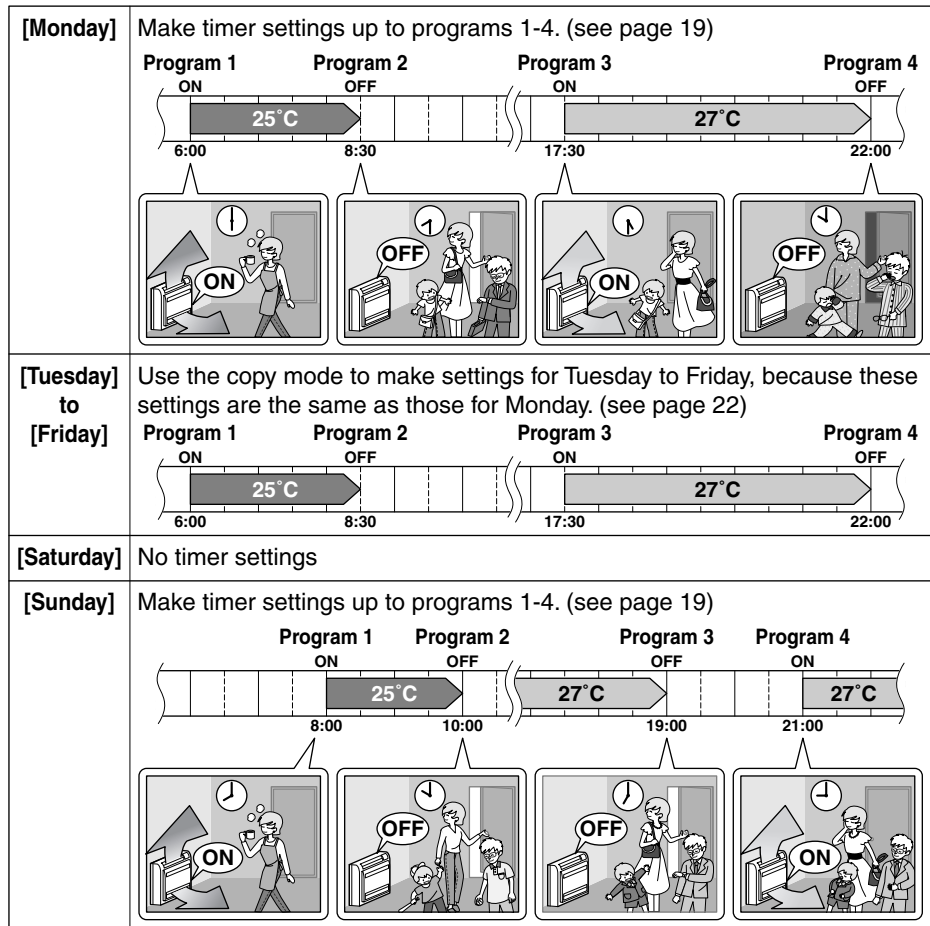
WEEKLY TIMER Operation

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

An example of WEEKLY TIMER settings is shown below.

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

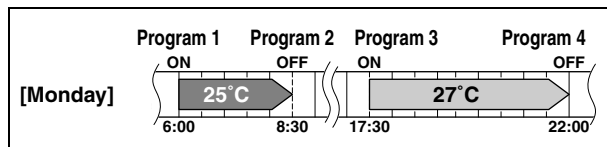


- Up to 4 reservations per day and 28 reservations per week can be set in the WEEKLY TIMER. The effective use of the copy mode ensures ease of making reservations.
- The use of ON-ON-ON-ON settings, for example, makes it possible to schedule operation mode and set temperature changes. Furthermore, by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

■ To use WEEKLY TIMER operation

Setting mode


- Make sure the day of the week and time are set. If not, set the day of the week and time. (page 8)




1. Press .

- 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.

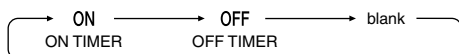
- Pressing the  changes the reservation number and the day of the week.

3. Press .

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


4. Press to select the desired mode.

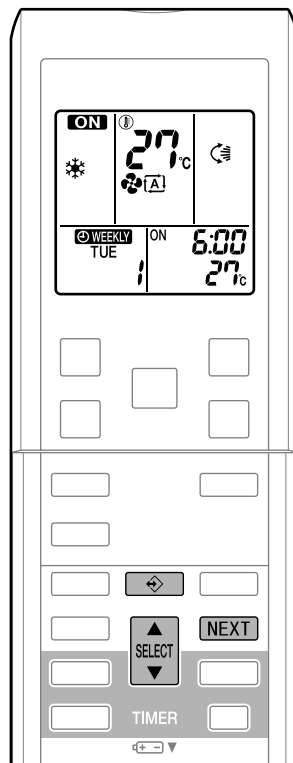
- Pressing the  changes "ON" or "OFF" setting in sequence.



- 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.




WEEKLY TIMER Operation


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 .
- 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.

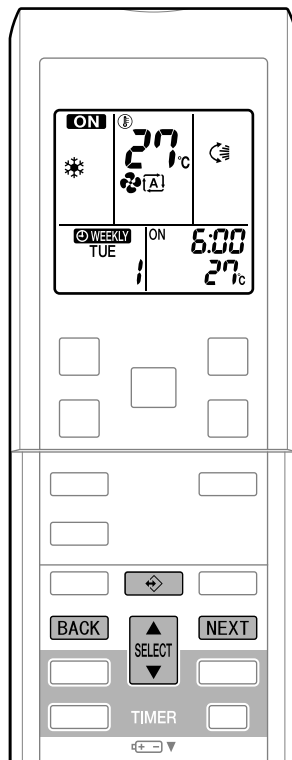
- The temperature can be set between 10°C and 32°C.
Cooling: The unit operates at 18°C even if it is set at 10 to 17°C.
Heating: The unit operates at 30°C even if it is set at 31 to 32°C.
- To return to the time setting, press .
- The set temperature is only displayed when the mode setting is on.

9. Press .

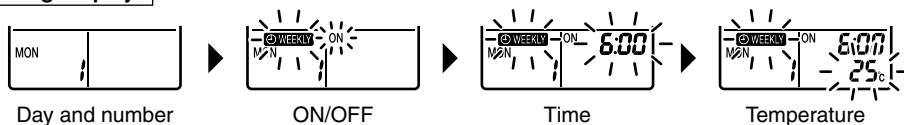
- The temperature will be set and go to the next reservation setting.
- To continue further settings, repeat the procedure from step 4.

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.
- A reservation made once can be easily copied and the same settings used for another day of the week.
Refer to copy mode. (page 22)




Setting Displays



NOTE

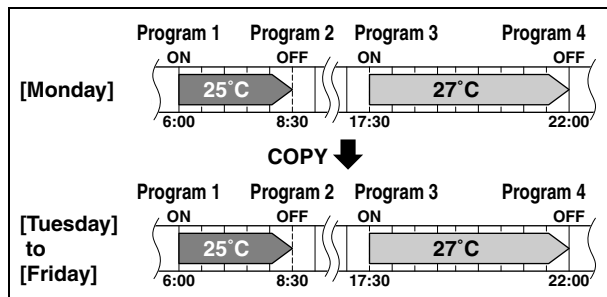
■ Notes on WEEKLY TIMER operation





- Do not forget to set the clock on the remote controller first.
- The day of the week, ON/OFF TIMER mode, time and set temperature (only for ON TIMER mode) can be set with WEEKLY TIMER. Other settings for ON TIMER are based on the settings just before the operation.
- Both WEEKLY TIMER and ON/OFF TIMER operation cannot be used at the same time. The ON/OFF TIMER operation has priority if it is set while WEEKLY TIMER is still active. The WEEKLY TIMER will go into standby state, and “**WEEKLY**” will disappear from the LCD.
When ON/OFF TIMER is up, the WEEKLY TIMER will automatically become active.
- Only the time and set temperature set with the weekly timer are sent with the . Set the weekly timer only after setting the operation mode, the fan strength, and the fan direction ahead of time.
- Shutting the breaker off, power failure, and other similar events will render operation of the indoor unit's internal clock inaccurate. Reset the clock. (page 8)
- The **BACK** can be used only for the time and temperature settings. It cannot be used to go back to the reservation number.

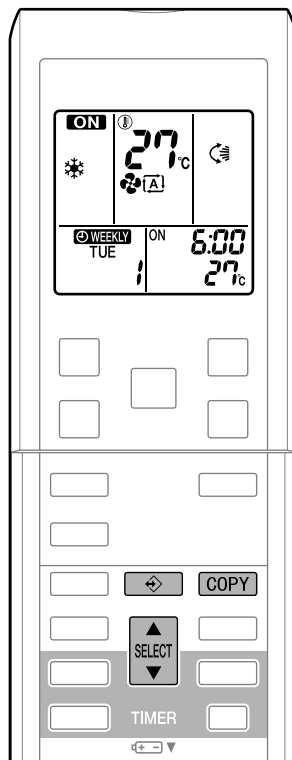
WEEKLY TIMER Operation

Copy mode

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




1. Press  .
2. Press  to confirm the day of the week to be copied.
3. Press  to activate copy mode.
 - The whole reservation of the selected day of the week will be copied.
4. Press  to select the destination day of the week.

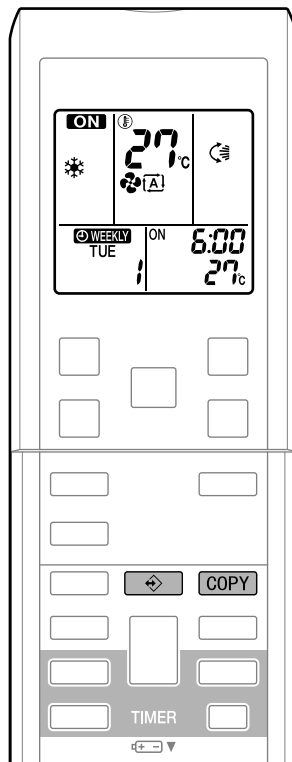


5. Press **COPY** .

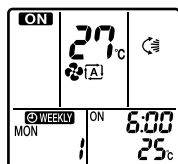
- The reservation will be copied to the selected day of the week. The whole reservation of the selected day of the week will be copied.
- To continue copying the settings to other days of the week, repeat step 4 and step 5.

6. Press to complete the setting.

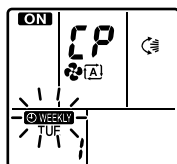
- “ WEEKLY” is displayed on the LCD and WEEKLY TIMER operation is activated.



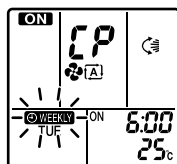
Setting Displays



Confirmation



Copy




Paste



Normal

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 19)

WEEKLY TIMER Operation



■ Confirming a reservation

- The reservation can be confirmed.


1. Press .

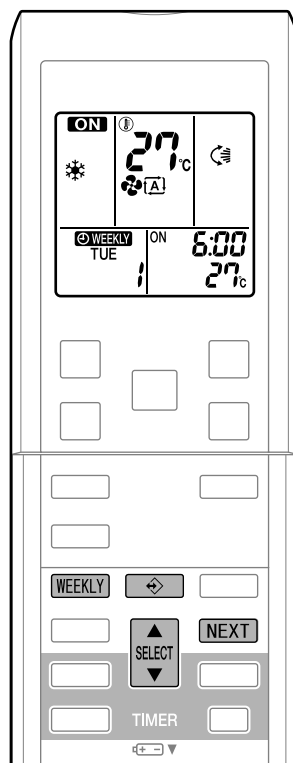
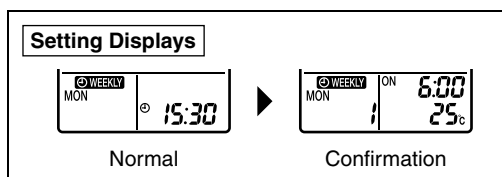
- The day of the week and the reservation number of the current day will be displayed.

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

- Pressing the  displays the reservation details.
- To change the confirmed reserved settings, select the reservation number and press . The mode is switched to setting mode. Go to setting mode step 4. (page 19)




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

4. Press 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 the  again.
- If a reservation deactivated with  is activated once again, the last reservation mode will be used.

■ To delete reservations

The individual reservation

- Refer to setting mode. (page 19)
When selecting desired mode at step 4 in setting mode, select "blank". The reservation will be deleted.

The reservations for each day of the week

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

5. Press  .


6. Select the day of the week to be canceled

with  .

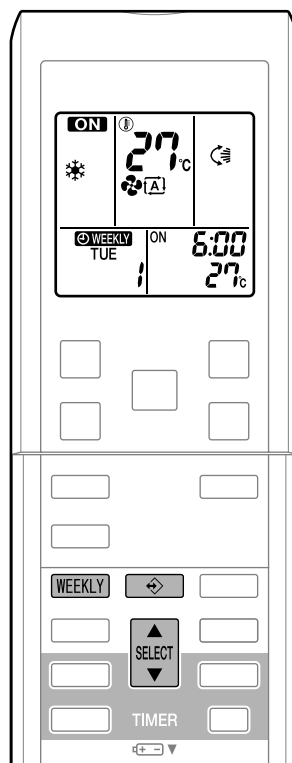
7. Hold  for 5 seconds.

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

All reservations

8. Hold  for 5 seconds while normal display.

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



Care and Cleaning



CAUTION

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

Units

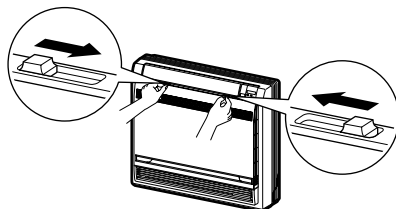
■ Indoor unit and remote controller

1. Wipe them with dry soft cloth.

■ Front panel

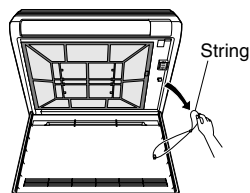
1. Open the front panel.

- Slide the two stoppers on the left and right sides inward until they click.



2. Remove the front panel.

- Remove the string.
- Allowing the front panel to fall forward will enable you to remove it.

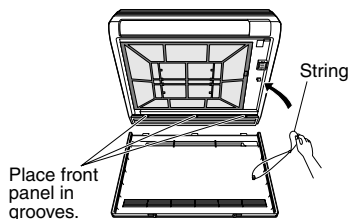


3. Clean the front panel.

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

4. Attach the front panel.

- Insert the front panel into the grooves of the unit (3 places).
- Attach the string to the right, inner-side of the front grille.
- Close the front panel slowly.



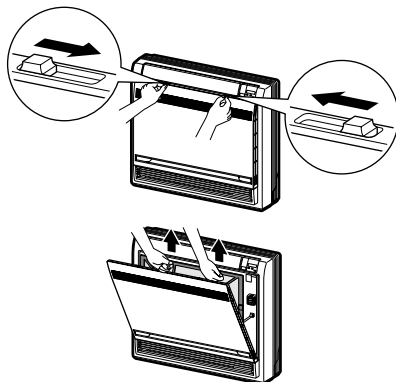
CAUTION

- 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, benzene, 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

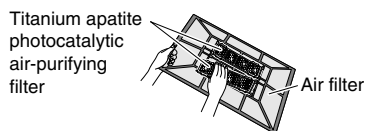
1. Remove the air filter.

- Open the front panel.
- Press the claws on the right and left of the air filter down slightly, then pull upward.



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

- Hold the tabs of the frame, and remove the claws in 4 places.

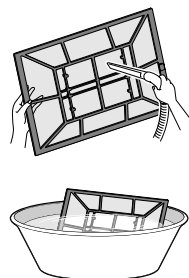


3. Clean or replace each filter.

3-1 Air filter

3-1-1 Wash the air filter 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.
- Be sure to remove the titanium apatite photocatalytic air-purifying filter.
- It is recommended to clean the air filter every 2 weeks.



Care and Cleaning

3-2 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]

3-2-1 Vacuum dusts, and soak in warm water or water for about 10 to 15 minutes if dirt is heavy.

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



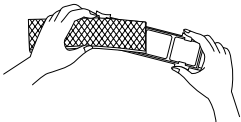
3-2-2 After washing, shake off remaining water and dry in the shade.

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

[Replacement]

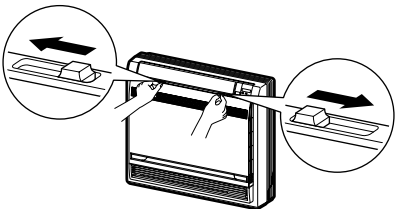
3-2-3 Remove the tabs on the filter frame and replace with a new filter.

- 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.



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

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




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

Item	Part No.
Titanium apatite photocatalytic air-purifying filter (without frame) 1 set	KAF968A42

■ 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 FAN operation.
 - Press  and start operation.
2. After operation stops, turn off the breaker for the unit.
3. Clean the air filter and set them again.
4. Take out batteries from the remote controller.

We recommend periodical maintenance.

In certain operating conditions, the inside of the unit 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 unit.

The maintenance cost must be born by the user.

Troubleshooting

- 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.
You may just continue using it.



Check

- Please check again before calling a repair person.

The flap does not start swing immediately.

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



The unit 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?



A sound is heard.

■ A sound like a flow of water

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

■ Pinging sound

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



Operation stopped suddenly. (OPERATION lamp flashes.)

- Are the air filter clean?
- If the hydro box and indoor unit are not set to the same operation mode, the indoor unit will stop.



Water leaks.

- The drain hose is clogged or the joint is loose.
- Inadequate inclination of drain pan or drain hose.
- The air purge valve is loosened.



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.



Cooling (Heating) effect is poor.

- Are the air filter clean?
- Is there anything to block the air inlet or the outlet of the indoor?
- Is the water temperature setting appropriate?
- Are the windows and doors closed?
- Are the airflow rate and the airflow direction set appropriately?
- Chilled or hot water is not circulating.



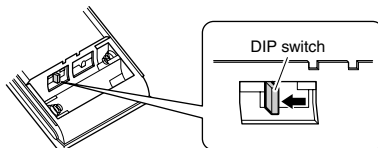
Remote controller does not work properly.

- 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 set the batteries of this manual. (page 7)



COOL operation cannot be selected, even though the unit is heating/cooling use.

- Slide the DIP switch to the left as shown in the illustration so that the COOL operation can be selected with the "MODE" button.



Troubleshooting

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 18)



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 unit.)



An abnormal functioning happens during operation.

- The unit may malfunction with lightning or radio waves. Turn the breaker off, turn it on again and try operating the unit 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 unit.
- Do not attempt to repair or modify the unit by yourself. Incorrect work may result in electric shocks or fire. Consult the service shop where you bought the unit.

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 unit automatically resumes operation in about 3 minutes. You should just wait for a while.

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

Disposal requirements



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

- Pb: lead (>0.004%)

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

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

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

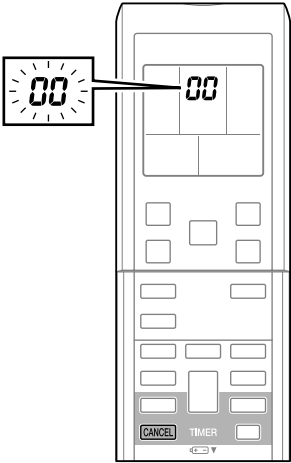
Please contact the installer or local authority for more information.

Troubleshooting

Fault diagnosis.

Fault diagnosis by remote controller

In the ARC452A series, the temperature display sections on the main unit indicate corresponding codes.



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

CODE	MEANING
00	NORMAL
A1	INDOOR PCB DEFECTIVENESS
A6	FAN MOTOR FAULT
C4	FAULTY HEAT EXCHANGER TEMPERATURE SENSOR
C9	FAULTY SUCTION AIR TEMPERATURE SENSOR

NOTE

- A short beep and 2 consecutive beeps indicate non-corresponding codes.
- To cancel the code display, hold the **CANCEL** down for 5 seconds. The code display also cancel itself if the button is not pressed for 1 minute.

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Two-dimensional bar code is a code
for manufacturing.

3P257979-1

M09B168 (0912) HT