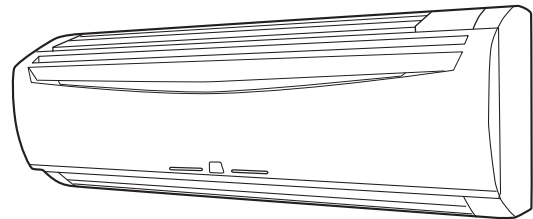


OPERATING MANUAL

INVERTER

**HEAT & COOL MODEL
(REVERSE CYCLE)
ROOM AIR CONDITIONER
WALL MOUNTED TYPE**



**Indoor Unit
ASTB18LDC**



**Outdoor Unit
AOTS18LDC**

**KEEP THIS OPERATION MANUAL
FOR FUTURE REFERENCE**

<p>⚠ CAUTION</p> <p>R410A REFRIGERANT</p> <p><small>This Air Conditioner contains and operates with refrigerant R410A and Polyol Ester oil.</small></p> <p>THIS PRODUCT MUST ONLY BE INSTALLED OR SERVICED BY QUALIFIED PERSONNEL.</p> <p><small>Refer to Commonwealth, State, Territory and local legislation, regulations, codes, installation & operation manuals, before the installation, maintenance and/or service of this product.</small></p>

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SAFETY PRECAUTIONS

DANGER!

- Do not attempt to install this air conditioner by yourself.
- This unit contains no user-serviceable parts. Always consult authorized service personnel for repairs.
- When moving, consult authorized service personnel for disconnection and installation of the unit.
- Do not become excessively chilled by staying for lengthy periods in the direct cooling airflow.
- Do not insert fingers or objects into the outlet port or intake grilles.
- Do not start and stop air conditioner operation by disconnecting the power supply cord and so on.
- Take care not to damage the power supply cord.
- In the event of a malfunction (burning smell, etc.), immediately stop operation, disconnect the power supply plug, and consult authorized service personnel.
- If the power supply cord of this appliance is damaged, it should only be replaced by the authorized service personal, since special purpose tools and specified cord are required.

CAUTION!

- Provide occasional ventilation during use.
- Do not direct air flow at fireplaces or heating apparatus.
- Do not climb on, or place objects on, the air conditioner.
- Do not hang objects from the indoor unit.
- Do not set flower vases or water containers on top of air conditioners.
- Do not expose the air conditioner directly to water.
- Do not operate the air conditioner with wet hands.
- Do not pull power supply cord.
- Turn off power source when not using the unit for extended periods.
- Check the condition of the installation stand for damage.
- Do not place animals or plants in the direct path of the air flow.
- Do not drink the water drained from the air conditioner.
- Do not use in applications involving the storage of foods, plants or animals, precision equipment, or art works.
- Connection valves become hot during Heating; handle with care.
- Do not apply any heavy pressure to radiator fins.
- Operate only with air filters installed.
- Do not block or cover the intake grille and outlet port.
- Ensure that any electronic equipment is at least one metre away from either the indoor or outdoor units.
- Avoid installing the air conditioner near a fireplace or other heating apparatus.
- When installing the indoor and outdoor unit, take precautions to prevent access to infants.
- Do not use inflammable gases near the air conditioner.

FEATURES AND FUNCTIONS

INVERTER

At the start of operation, a large power is used to bring the room quickly to the desired temperature. Afterwards, the unit automatically switches to a low power setting for economic and comfortable operation.

COIL DRY OPERATION

The Indoor unit can be dried by pressing the COIL DRY button on the Remote Control Unit so as to avoid going moldy and restrain the breed of bacterium.

AUTO CHANGEOVER

The operation mode (cooling, dry, heating) is switched automatically to maintain the set temperature, and the temperature is kept constant at all times.

PROGRAM TIMER

The program timer allows you to integrate OFF timer and ON timer operations in a single sequence. The sequence can involve one transition from OFF timer to ON timer, or from ON timer to OFF timer, within a twenty-four hour period.

SLEEP TIMER

When the SLEEP button is pressed during Heating mode, the air conditioner's thermostat setting is gradually lowered during the period of operation; during cooling mode, the thermostat setting is gradually raised during the period of operation. When the set time is reached, the unit automatically turns off.

WIRELESS REMOTE CONTROL UNIT

The Wireless Remote Control Unit allows convenient control of air conditioner operation.

SWING OPERATION

The Air Flow Direction Louvers swings automatically up and down so that the air speeds to every nook and corner of your room.

REMOVABLE OPEN PANEL

The indoor unit's Open Panel can be removed for easy cleaning and maintenance.

MILDEW-RESISTANT FILTER

The AIR FILTER has been treated to resist mildew growth, thus allowing cleaner use and easier care.

SUPER QUIET OPERATION

When the FAN CONTROL button is used to select QUIET, the unit begins super-quiet operation; the indoor unit's air-flow is reduced to produce quieter operation.

AIR CLEANING MODE

Relies on the air conditioner's power to quickly purify the air in the room.

ELECTRONIC AIR CLEAN FILTER

Install for use inside of the dust collection unit. For details on how to install the filter, please refer to page 16. Electrical power is used to charge the filter to remove contaminants from the air and to effectively collect dust and remove odors. It also helps to reduce the bacterial activity.

NAME OF PARTS

Fig. 1

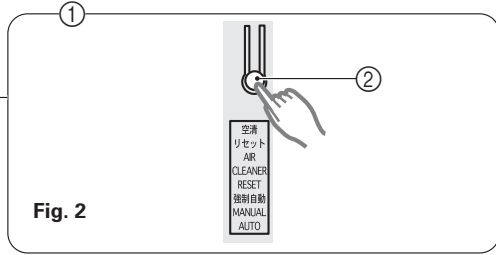
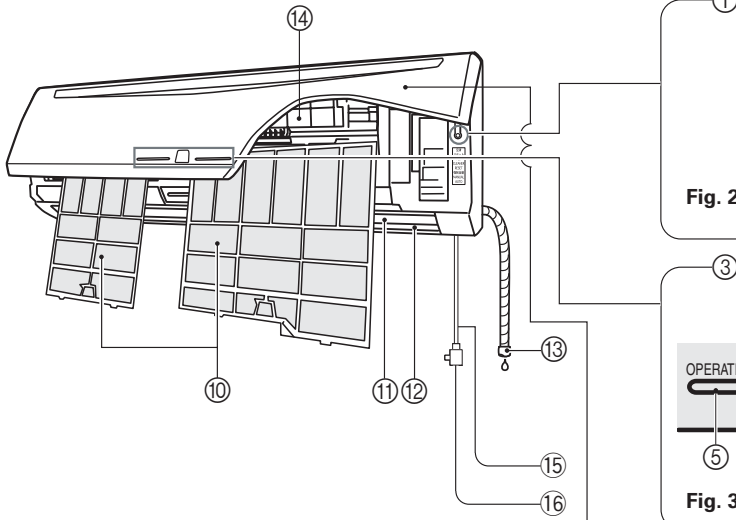


Fig. 2

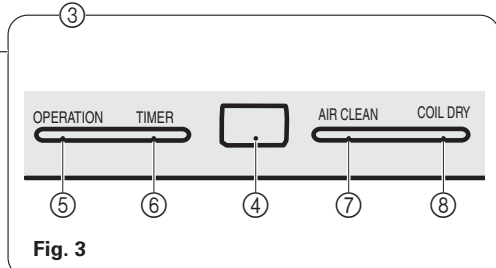


Fig. 3

Fig. 5

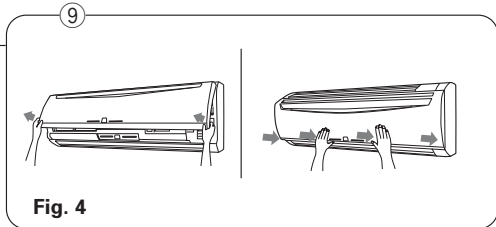
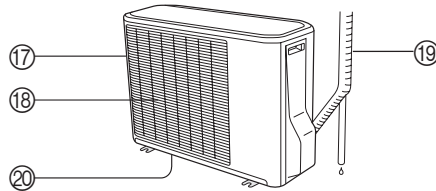


Fig. 4

Fig. 6

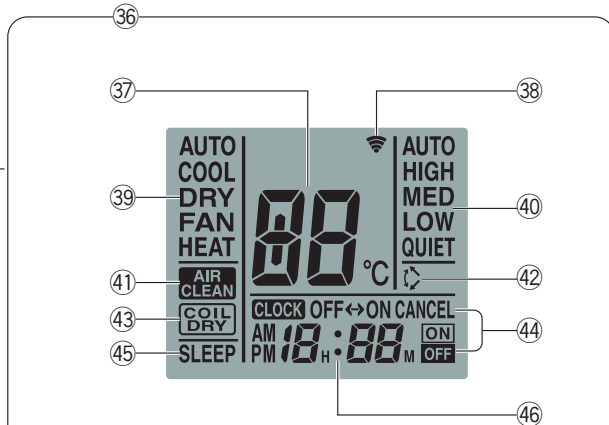
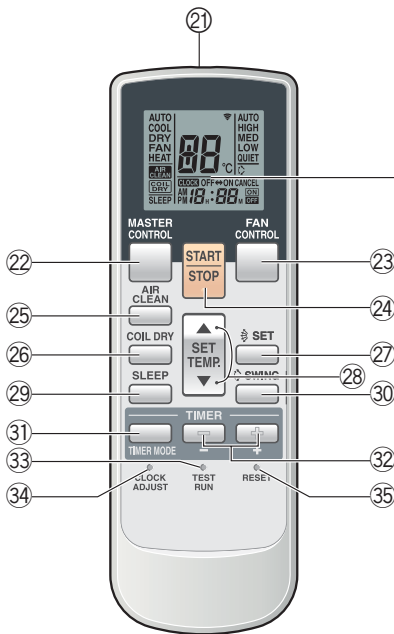


Fig. 7

To facilitate explanation, the accompanying illustration has been drawn to show all possible indicators; in actual operation, however, the display will only show those indicators appropriate to the current operation.

NAME OF PARTS

Fig. 1 Indoor Unit

- ① **Operating Control Panel (Fig. 2)**
- ② **MANUAL AUTO button**
 - When kept on pressing the MANUAL AUTO button for more than 10 seconds, the forced cooling operation will start.
 - The forced cooling operation is used at the time of installation.
Only for authorized service personnel's use.
 - When the forced cooling operation starts by any chance, press the START/STOP button to stop the operation.

- ③ **Indicator (Fig. 3)**
- ④ **Remote Control Signal Receiver**
- ⑤ **OPERATION Indicator Lamp (red)**
- ⑥ **TIMER Indicator Lamp (green)**
 - If the TIMER indicator lamp flashes when the timer is operating, it indicates that a fault has occurred with the timer setting (See Page 18 Auto Restart).
- ⑦ **AIR CLEAN Indicator Lamp (green)**
- ⑧ **COIL DRY Indicator Lamp (orange)**

- ⑨ **Intake Grille (Fig. 4)**
- ⑩ **Air Filter**
- ⑪ **Air Flow Direction Louver**
- ⑫ **Right-Left Louver**
(behind Air Flow Direction Louver)
- ⑬ **Drain Hose**
- ⑭ **Electrical Air Cleaning Filter**
- ⑮ **Power Supply Cord**
- ⑯ **Power Supply Plug**

Fig. 5 Outdoor Unit

- ⑰ **Intake Port**
- ⑱ **Outlet Port**
- ⑲ **Pipe Unit**
- ⑳ **Drain port (bottom)**

Fig. 6 Remote Control Unit

- ㉑ **Signal Transmitter**
- ㉒ **MASTER CONTROL button**
- ㉓ **FAN CONTROL button**
- ㉔ **START/STOP button**
- ㉕ **AIR CLEAN button**
- ㉖ **COIL DRY button**
- ㉗ **SET button**
- ㉘ **SET TEMP. button (▲ / ▼)**
- ㉙ **SLEEP button**
- ㉚ **SWING button**
- ㉛ **TIMER MODE button**
- ㉜ **TIMER SET (+ / -) buttons**
- ㉝ **TEST RUN button**
 - This button is used when installing the conditioner, and should not be used under normal conditions, as it will cause the air conditioner's thermostat function to operate incorrectly.
 - If this button is pressed during normal operation, the unit will switch to test operation mode, and the Indoor Unit's OPERATION Indicator Lamp and TIMER Indicator Lamp will begin to flash simultaneously.
 - To stop the test operation mode, press the START/STOP button to stop the air conditioner.
- ㉞ **CLOCK ADJUST button**
- ㉟ **RESET button**
- ㊱ **Remote Control Unit Display (Fig. 7)**
- ㊲ **Temperature SET Display**
- ㊳ **Transmit Display**
- ㊴ **Operating Mode Display**
- ㊵ **Fan Speed Display**
- ㊶ **AIR CLEAN Display**
- ㊷ **SWING Display**
- ㊸ **COIL DRY Display**
- ㊹ **Timer Mode Display**
- ㊺ **SLEEP Display**
- ㊻ **Clock Display**

PREPARATION

Turn on the Power

- 1 Connect the Power Supply Plug (Fig. 1 ⑩) to an electrical outlet; in the case of a direct line connection, turn on the circuit breaker.**

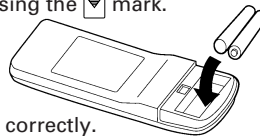
Load Batteries (R03/LR03 × 2)

- 1 Press and slide the battery compartment lid on the reverse side to open it.**

Slide in the direction of the arrow while pressing the  mark.

- 2 Insert batteries.**

Be sure to align the battery polarities (+/−) correctly.



- 3 Close the battery compartment lid.**

⚠ CAUTION!

- Take care to prevent infants from accidentally swallowing batteries.
- When not using the Remote Control Unit for an extended period, remove the batteries to avoid possible leakage and damage to the unit.
- If leaking battery fluid comes in contact with your skin, eyes, or mouth, immediately wash with copious amounts of water, and consult your physician.
- Dead batteries should be removed immediately and disposed of properly, either in a battery collection receptacle or to the appropriate authority.
- Do not attempt to recharge dry batteries.


Never mix new and used batteries, or batteries of different types. Batteries should last about one year under normal use. If the Remote Control Unit's operating range becomes appreciably reduced, replace the batteries and press the RESET button with the tip of a ballpoint pen or other small object.


Set the Current time

- 1 Press the CLOCK ADJUST button (Fig. 6 ⑳).**

Use the tip of a ball-point pen or other small object to press the button.

- 2 Use the TIMER SET (+/−) buttons (Fig. 6 ㉑) to adjust the clock to the current time.**

 button: Press to advance the time.

 button: Press to reverse the time.

(Each time the buttons are pressed, the time will be advanced/reversed in one-minute increments; hold the buttons depressed to change the time quickly in ten-minute increments.)

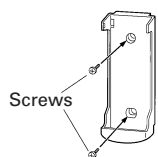
- 3 Press the CLOCK ADJUST button (Fig. 6 ⑳) again.**

This completes the time setting and starts the clock.

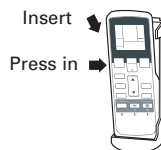
To Use the Remote Control Unit

- The Remote Control Unit must be pointed at signal receiver (Fig. 3 ④) to operate correctly.
- Operating Range: About 7 meters.
- When a signal is properly received by the air conditioner, a beeping sound will be heard.
- If no beep is heard, press the Remote Control Unit button again.

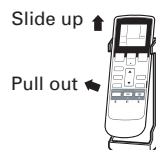
Remote Control Unit Holder



- ① Mount the Holder.**



- ② Set the Remote Control Unit.**



- ③ To remove the Remote Control Unit (when use at hand).**

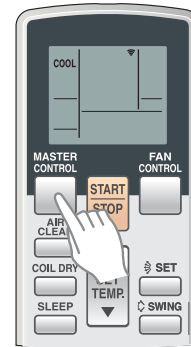
OPERATION

To Select Mode Operation

- 1 Press the START/STOP button (Fig.6 ㉔).**
The indoor unit's OPERATION Indicator Lamp (red) (Fig. 3 ㉕) will light.
The air conditioner will start operating.
- 2 Press the MASTER CONTROL button (Fig.6 ㉔) to select the desired mode.**
Each time the button is pressed, the mode will change in the following order.



About three seconds later, the entire display will reappear.



Example: When set to COOL.

To Set the Thermostat

Press the SET TEMP. button (Fig. 6 ㉔).

- ▲ button: Press to raise the thermostat setting.
- ▼ button: Press to lower the thermostat setting.

●Thermostat setting range:

AUTO	18 to 30 °C
Heating	16 to 30 °C
Cooling/Dry	18 to 30 °C

The thermostat cannot be used to set room temperature during the FAN mode (the temperature will not appear on the Remote Control Unit's Display).

About three seconds later, the entire display will reappear.

The thermostat setting should be considered a standard value, and may differ somewhat from the actual room temperature.



Example: When set to 26 °C.

To Set the Fan Speed

Press the FAN CONTROL button (Fig. 6 ㉔).

Each time the button is pressed, the fan speed changes in the following order:

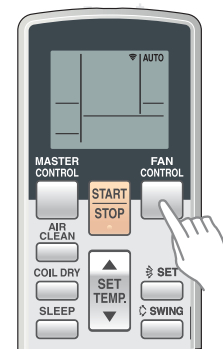


About three seconds later, the entire display will reappear.

When set to AUTO:

- Heating** : Fan operates so as to optimally circulate warmed air.
However, the fan will operate at very low speed when the temperature of the air issued from the indoor unit is low.
- Cooling** : As the room temperature approaches that of the thermostat setting, the fan speed becomes slower.
- Fan** : The fan runs at the low fan speed.

The fan will operate at a very low setting during Monitor operation and at the start of the Heating mode.



Example: When set to AUTO.

SUPER QUIET Operation

When set to QUIET:

SUPER QUIET operation begins. The indoor unit's airflow will be reduced for quieter operation.

- SUPER QUIET operation cannot be used during Dry mode. (The same is true when dry mode is selected during AUTO mode operation.)
- During Super Quiet operation, Heating and Cooling performance will be reduced somewhat. If the room does not warm up/ cool down when using SUPER QUIET Operation, please adjust the air conditioner's Fan Speed.

To Stop Operation

Press the **START/STOP** button (Fig.6 ㉔).

The OPERATION Indicator Lamp (red) (Fig. 3 ㉓) will go out.

About AUTO CHANGEOVER Operation

AUTO: ● When AUTO CHANGEOVER operation first selected, the fan will operate at very low speed for about one minute, during which time the unit detects the room conditions and selects the proper operating mode.

If the difference between thermostat setting and actual room temperature is more than +2 °C → Cooling or dry operation

If the difference between thermostat setting and actual room temperature is within ±2 °C → Monitor operation

If the difference between thermostat setting and actual room temperature is more than -2 °C → Heating operation

- When the air conditioner has adjusted your room's temperature to near the thermostat setting, it will begin monitor operation. In the monitor operation mode, the fan will operate at low speed. If the room temperature subsequently changes, the air conditioner will once again select the appropriate operation (Heating, Cooling) to adjust the temperature to the value set in the thermostat.

(The monitor operation range is ±2 °C relative to the thermostat setting.)

- If the mode automatically selected by the unit is not what you wish, select one of the mode operation (HEAT, COOL, DRY, FAN).

About Mode Operation

Heating: ● Use to warm your room.

- When Heating mode is selected, the air conditioner will operate at very low fan speed for about 3 to 5 minutes, after which it will switch to the selected fan setting. This period of time is provided to allow the indoor unit to warm up before begin full operation.
- When the room temperature is very low, frost may form on the outside unit, and its performance may be reduced. In order to remove such frost, the unit will automatically enter the defrost cycle from time to time. During Automatic Defrosting operation, the OPERATION Indicator Lamp (red) (Fig. 3 ㉓) will flash, and the heat operation will be interrupted.

Cooling: ● Use to cool your room.

Dry: ● Use for gently cooling while dehumidifying your room.

- You cannot heat the room during Dry mode.
- During Dry mode, the unit will operate at low speed; in order to adjust room humidity, the indoor unit's fan may stop from time to time. Also, the fan may operate at very low speed when adjusting room humidity.
- The fan speed cannot be changed manually when Dry mode has been selected.

Fan: ● Use to circulate the air throughout your room.

During Heating mode:

Set the thermostat to a temperature setting that is higher than the current room temperature. The Heating mode will not operate if the thermostat is set lower than the actual room temperature.

During Cooling/Dry mode:

Set the thermostat to a temperature setting that is lower than the current room temperature. The Cooling and Dry modes will not operate if the thermostat is set higher than the actual room temperature (in Cooling mode, the fan alone will operate).

During Fan mode:

You can not use the unit to heat and cool your room.

AIR CLEANING OPERATION

If you wish to eliminate dirt, dust, cigarette smoke, pollen, or just simply purify the air of the room, use the Air Cleaning Mode.

- 1 Press the START/STOP button (Fig. 6 24).**
The OPERATION Indicator Lamp (red) (Fig. 3 5) will light.
(If the unit is already in operation, please proceed to step 2.)

- 2 Press the AIR CLEAN button (Fig. 6 25).**
The AIR CLEAN Indicator Lamp (green) (Fig. 3 7) will light up.
 - Air conditioning and Air Cleaning will function simultaneously.

If you wish to stop Air Clean

Press the AIR CLEAN button (Fig. 6 25) once again.

The AIR CLEAN Indicator Lamp (green) (Fig. 3 7) will go out.

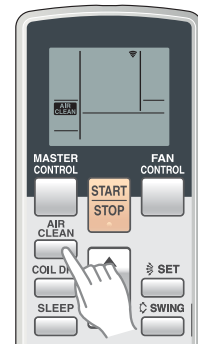
- This will only stop the Air Cleaning, the air conditioner will continue operating.

To also stop the air conditioner

Press the START/STOP button (Fig. 6 24).

The OPERATION Indicator Lamp (red) (Fig. 3 5) will go out.

- The next time the START / STOP button (Fig. 6 24) is pressed air conditioning and air cleaning will both resume operating.



Air cleaning

- During operation, the unit produces a small amount of ozone that can be smelled.
- When this unit is used in combination with the ultrasonic humidifier, white particles may become attached to the plasma filter unit. If this happens, clean the plasma filter unit as soon as possible. (Refer to page 14, 15.)
- The air cleaning operation cannot remove gases such as carbon monoxide and alcohol from the air. During operation, ventilate the room often to prevent asphyxiation or suffocation.
- If the intake filter is removed during operation, a safety device will stop the operation of the plasma filter unit. If this happens, the AIR CLEAN Indicator Lamp (green) (Fig. 3 7) on the indoor unit will flash after some time has passed. Use the START/STOP button on the remote controller to stop the operation, install the intake filter, and then use the START/STOP button to restart the operation.
- Use the FAN CONTROL button to change the fan speed. (Refer to page 6.) The plasma filter unit operates most effectively at the highest fan speed.
- The AIR CLEAN Indicator Lamp (green) (Fig. 3 7) will flash to inform you that the periodic cleaning of the plasma filter unit is required. (Refer to page 14, 15.)

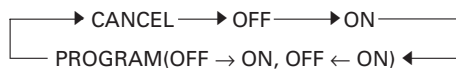
TIMER OPERATION

Before using the timer function, be sure that the Remote Control Unit is set to the correct current time (☞ P. 5).

To Use the ON timer or OFF timer

1 Press the START/STOP button (Fig. 6 24) (if the unit is already operating, proceed to step 2).
The indoor unit's OPERATION Indicator Lamp (red) (Fig. 3 5) will light.

2 Press the TIMER MODE button (Fig. 6 31) to select the OFF timer or ON timer operation.
Each time the button is pressed the timer function changes in the following order:



The indoor unit's TIMER Indicator Lamp (green) (Fig. 3 6) will light.

3 Use the TIMER SET buttons (Fig. 6 32) to adjust the desired OFF time or ON time.
Set the time while the time display is flashing (the flashing will continue for about five seconds).

- + button:** Press to advance the time.
- button:** Press to reverse the time.

About five seconds later, the entire display will reappear.

To Cancel the Timer

Use the TIMER MODE button to select "CANCEL".
The air conditioner will return to normal operation.

To Change the Timer Settings

Perform steps 2 and 3.

To Stop Air Conditioner Operation while the Timer is Operating

Press the START/STOP button.

To Change Operating Conditions

If you wish to change operating conditions (Mode, Fan Speed, Thermostat Setting, SUPER QUIET mode) after making the timer setting, wait until the entire display reappears, then press the appropriate buttons to change the operating condition desired.

To Use the Program timer

1 Press the START/STOP button (Fig. 6 24) (if the unit is already operating, proceed to step 2).
The indoor unit's OPERATION Indicator Lamp (red) (Fig. 3 5) will light.

2 Set the desired times for OFF timer and ON timer.
See the section "To Use the ON timer or OFF timer" to set the desired mode and times.
About three seconds later, the entire display will reappear.
The indoor unit's TIMER Indicator Lamp (green) (Fig. 3 6) will light.

3 Press the TIMER MODE button (Fig. 6 31) to select the PROGRAM timer operation (OFF -> ON or OFF -> ON will display).

The display will alternately show "OFF timer" and "ON timer", then change to show the time setting for the operation to occur first.

- The program timer will begin operation. (If the ON timer has been selected to operate first, the unit will stop operating at this point.)

About five seconds later, the entire display will reappear.

To Cancel the Timer

Use the TIMER MODE button to select "CANCEL".
The air conditioner will return to normal operation.

To Change the Timer Settings

1. Follow the instructions given in the section "To Use the ON Timer or OFF Timer" to select the timer setting you wish to change.
2. Press the TIMER MODE button to select either OFF -> ON or OFF -> ON.

To Stop Air Conditioner Operation while the Timer is Operating

Press the START/STOP button.

To Change Operating Conditions

If you wish to change operating conditions (Mode, Fan Speed, Thermostat Setting, SUPER QUIET mode) after making the timer setting, wait until the entire display reappears, then press the appropriate buttons to change the operating condition desired.

About the Program timer

- The program timer allows you to integrate OFF timer and ON timer operations in a single sequence. The sequence can involve one transition from OFF timer to ON timer, or from ON timer to OFF timer, within a twenty-four hour period.
- The first timer function to operate will be the one set nearest to the current time. The order of operation is indicated by the arrow in the Remote Control Unit's Display (OFF -> ON, or OFF -> ON).
- One example of Program timer use might be to have the air conditioner automatically stop (OFF timer) after you go to sleep, then start (ON timer) automatically in the morning before you arise.

SLEEP TIMER OPERATION

Unlike other timer functions, the SLEEP timer is used to set the length of time until air conditioner operate is stopped.

To Use the SLEEP Timer

While the air conditioner is operating or stopped, press the SLEEP button (Fig. 6 29).

The indoor unit's OPERATION Indicator Lamp (red) (Fig. 3 6) lights and the TIMER Indicator Lamp (green) (Fig. 3 6) will light.

To Cancel the Timer:

Use the TIMER MODE button to select "CANCEL".
The air conditioner will return to normal operation.

To Change the Timer Settings

Press the SLEEP button (Fig. 6 29) once again and set the time using the TIMER SET(+/ -) buttons (Fig. 6 32).

Set the time while the Timer Mode Display is flashing (the flashing will continue about five seconds).

To Stop the Air Conditioner During Timer Operation:

Press the START/STOP button.

- + button:** Press to advance the time.
- button:** Press to reverse the time.

About five seconds later, the entire display will reappear.

About the SLEEP Timer

To prevent excessive warming or cooling during sleep, the SLEEP timer function automatically modifies the thermostat setting in accordance with the set time setting. When the set time has elapsed, the air conditioner completely stops.

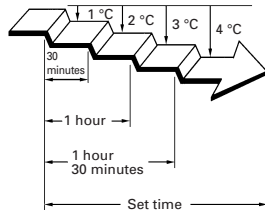
During Heating operation:

When the SLEEP timer is set, the thermostat setting is automatically lowered 1 °C every thirty minutes. When the thermostat has been lowered a total of 4 °C, the thermostat setting at that time is maintained until the set time has elapsed, at which time the air conditioner automatically turns off.

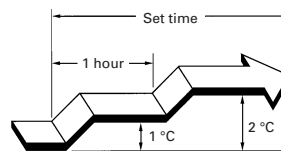
During Cooling/Dry operation:

When the SLEEP timer is set, the thermostat setting is automatically raised 1 °C every sixty minutes. When the thermostat has been raised a total of 2 °C, the thermostat setting at that time is maintained until the set time has elapsed, at which time the air conditioner automatically turns off.

SLEEP timer setting



SLEEP timer setting



ADJUSTING THE DIRECTION OF AIR CIRCULATION

Vertical (up-down) direction of airflow is adjusted by pressing the Remote Control Unit's SET button. Horizontal (right-left) airflow direction is adjusted manually, by moving the Air Flow Direction Louvers. Whenever making horizontal airflow adjustments, start air conditioner operation and be sure that the vertical air direction louvers are stopped.

Vertical Air Direction Adjustment

Press the SET button (Fig. 6 27).

Each time the button is pressed, the air direction range will change as follows:



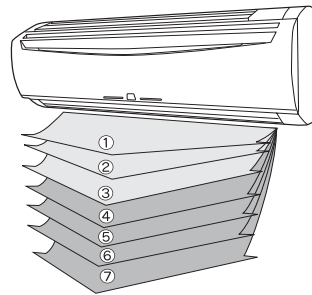
Types of Air flow Direction Setting:

①,②,③ : During Cooling/Dry modes

④,⑤,⑥,⑦ : During Heating mode

①,②,③,④,⑤,⑥,⑦ : During Fan mode

The Remote Control Unit's display does not change.



- Use the air direction adjustments within the ranges shown above.
- The vertical airflow direction is set automatically as shown, in accordance with the type of operation selected.
 - During Cooling/Dry mode : Horizontal flow ①
 - During Heating mode : Downward flow ⑦
- During AUTO mode operation, for the first minute after beginning operation, airflow will be horizontal ①; the air direction cannot be adjusted during this period.

⚠ DANGER!

- Never place fingers or foreign objects inside the outlet ports, since the internal fan operates at high speed and could cause personal injury.

- Always use the Remote Control Unit's SET button to adjust the vertical airflow louvers. Attempting to move them manually could result in improper operation; in this case, stop operation and restart. The louvers should begin to operate properly again.

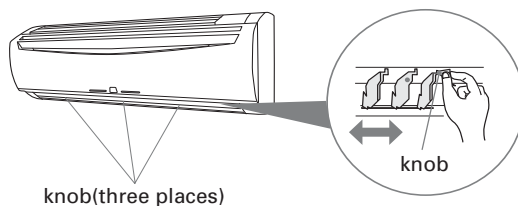
- During use of the Cooling and Dry modes, do not set the Air Flow Direction Louvers in the Heating range (④ - ⑦) for long periods of time, since water vapor may condense near the outlet louvers and drops of water may drip from the air conditioner. During the Cooling and Dry modes, if the Air Flow Direction Louvers are left in the heating range for more than 30 minutes, they will automatically return to position ③.

- When used in a room with infants, children, elderly or sick persons, the air direction and room temperature should be considered carefully when making settings.

Right-Left Adjustment

Adjust the Right-Left louvers.

- Move the Right-Left louvers to adjust air flow in the direction you prefer.



⚠ DANGER!

- When adjusting the Right-Left Louvers, it is necessary to stop the Air-Conditioner first and make sure that it stops completely before adjusting the direction.

SWING OPERATION

Begin air conditioner operation before performing this procedure.

To select SWING Operation

Press the SWING button (Fig. 6 ⑩).

The SWING Display (Fig. 7 ④) will light.

In this mode, the Air Flow Direction Louvers will swing automatically to direct the air flow both up and down.

To stop SWING Operation

Press the SWING button (Fig. 6 ⑩) once again.

The SWING Display (Fig. 7 ④) will go out.

Airflow direction will return to the setting before swing was begun.

About Swing Operation

During cooling/Dry mode : Swings between ① and ③.

During heating mode : Swings between ③ and ⑦.

During fan mode : • Air flow Direction Setting ①,②,③.

Swings between ① and ③.

• Air flow Direction Setting ④,⑤,⑥,⑦.

Swings between ③ and ⑦.

- The SWING operation may stop temporarily when the air conditioner's fan is not operating, or when operating at very low speeds.

COIL DRY OPERATION

The Indoor unit can be dried by pressing the COIL DRY button on the Remote Control Unit so as to avoid going moldy and restrain the breed of bacterium.

The COIL DRY Operation will operate for 30 minutes after pressing the COIL DRY button and it will stop automatically.

To select COIL DRY Operation

Press the COIL DRY button (Fig. 6 ⑫) during operation or when it stops.

The COIL DRY Indicator Lamp (orange) (Fig. 3 ⑧) and the COIL DRY Display (Fig. 7 ④) will light. Then it will disappear after 30 minutes.

To cancel COIL DRY Operation

Press the START/STOP button (Fig. 6 ⑭) during COIL DRY Operation.

The COIL DRY Indicator Lamp (orange) (Fig. 3 ⑧) and the COIL DRY Display (Fig. 7 ④) will go out . Then the operation stops.

About COIL DRY Operation

- Press the COIL DRY button again during COIL DRY Operation, COIL DRY Operation can be reset.
- The COIL DRY Operation cannot get rid of the existed mould or bacterium, and it has no sterilization effect either.

MANUAL AUTO OPERATION

Use the MANUAL AUTO operation in the event the Remote Control Unit is lost or otherwise unavailable.

How To Use the Main Unit Controls

Press the MANUAL AUTO button (Fig. 2 ②) on the main unit control panel.

To stop operation, press the MANUAL AUTO button (Fig. 2 ②) once again. (Controls are located inside the Open Panel)

- When the air conditioner is operated with the controls on the Main Unit, it will operate under the same mode as the AUTO mode selected on the Remote Control Unit (see page 7).
- The fan speed selected will be "AUTO" and the thermostat setting will be standard.(24°C)

CLEANING AND CARE

⚠ CAUTION!

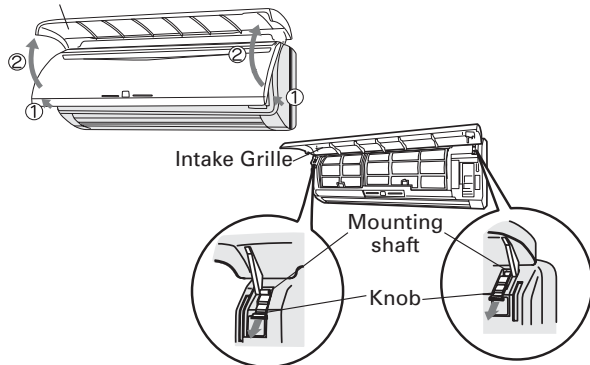
- Before cleaning the air conditioner, be sure to turn it off and disconnect the Power Supply Cord.
- Be sure the Intake Grille (Fig. 4 ⑨) is installed securely.
- When removing and replacing the air filters, be sure not to touch the heat exchanger, as personal injury may result.

Cleaning the Intake Grille

1. Remove the Intake Grille.

- ① Place your fingers at both lower ends of the grille panel, and lift forward; if the grille seems to catch partway through its movement, continue lifting upward to remove.
- ② Pull past the intermediate catch and open the Intake Grille wide so that it become horizontal.

Intake Grille

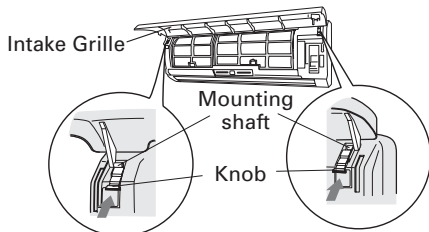
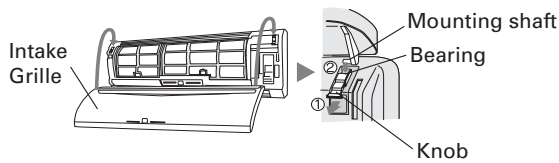


2. Clean with water.

Remove dust with a vacuum cleaner; wipe the unit with warm water, then dry with a clean, soft cloth.

3. Replace the Intake Grille.

- ① Pull the knobs all the way.
- ② Hold the grille horizontal and set the left and right mounting shafts into the bearings at the top of the panel.
- ③ Press the place where the arrow on the diagram indicates and close the Intake Grille.



- When used for extended periods, the unit may accumulate dirt inside, reducing its performance. We recommend that the unit be inspected regularly, in addition to your own cleaning and care. For more information, consult authorized service personnel.
- When cleaning the unit's body, do not use water hotter than 40 °C, harsh abrasive cleansers, or volatile agents like benzene or thinner.
- Do not expose the unit body to liquid insecticides or hairsprays.
- When shutting down the unit for one month or more, first allow the fan mode to operate continuously for about one-half day to allow internal parts to dry thoroughly.

Cleaning the Air Filter

1. Open the Intake Grille, and remove the air filter.

Lift up the air filter's handle, disconnect the two lower tabs, and pull out.



2. Remove dust with a vacuum cleaner or by washing.

After washing, allow to dry thoroughly in a shaded place.

3. Replace the Air Filter and close the Intake Grille.

- ① Align the sides of the air filter with the panel, and push in fully, making sure the two lower tabs are returned properly to their holes in the panel.



- ② Close the Intake Grille.

(For purposes of example, the illustration shows the unit without Intake Grille installed.)

- Dust can be cleaned from the air filter either with a vacuum cleaner, or by washing the filter in a solution of mild detergent and warm water. If you wash the filter, be sure to allow it to dry thoroughly in a shady place before re-installing.
- If dirt is allowed to accumulate on the air filter, air flow will be reduced, lowering operating efficiency and increasing noise.
- During periods of normal use, the Air Filters should be cleaned every two weeks.

CLEANING THE PLASMA AIR CLEANING FILTER

WARNING!

Before cleaning the plasma filter unit, be sure to turn off the power supply to the air conditioner. Electric shock may result.

CAUTION!

- Make sure the plasma filter unit is properly mounted before cleaning or performing other tasks on it. If the unit is not properly mounted, it could fall off and cause damage or injury.
- You can be injured if you touch the heat exchanger when removing or installing the plasma filter unit. Do not insert your fingers between the plasma filter unit and the heat exchanger.

Regarding the Air Cleaning check function

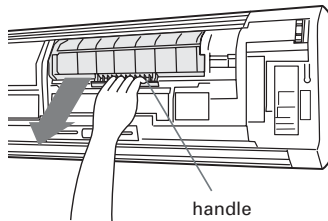
- This function is illustrated by the flashing of the AIR CLEAN Indicator Lamp (green) (Fig. 3 ⑦), indicating that the unit requires maintenance.
After Air Cleaning Mode has been in use for approximately 400 hours, the AIR CLEAN Indicator Lamp (green) (Fig. 3 ⑦) will begin to slowly flash (approximately once every 7 seconds). When this occurs, the unit requires maintenance.
After Air Cleaning Mode has been in use for approximately 500 hours, the AIR CLEAN Indicator Lamp (green) will begin to flash quickly (approximately once every 3 seconds). At this point, Air Cleaning will cease functioning. Please carry out appropriate maintenance for the unit.
- Please carry out unit maintenance every 6 months.
- If a squeaking or chirping sound is heard, unit maintenance needs to be carried out, even if the AIR CLEAN Indicator Lamp (green) (Fig. 3 ⑦) is not flashing.

Cleaning the dust collection unit

1. Open the intake grille and remove the air filter on the right.

- Please consult the instructions for cleaning the air filter on page 13.

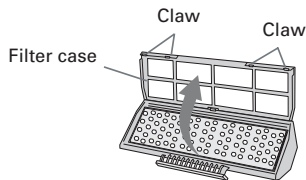
2. Remove the dust collection unit.



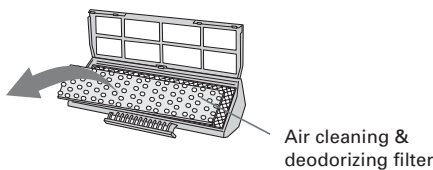
Securely grasp the dust collection unit by the handle and pull it out (as shown by the arrow). (The above figure is only for reference, so the intake grille is not included).

3. Remove the air cleaning & deodorizing filter from the cleaning unit.

- ① Open the filter case at the rear of cleaning unit.



- ② Remove the air cleaning & deodorizing filter.



4. Wash with water and dry.

- ① Soak the plasma filter unit in warm water (40 to 45°C) for 10 to 15 minutes. If the plasma filter unit is extremely dirty, extremely dilute a mild synthetic laundry detergent (low alkalinity or isotope detergent) to 15 times the standard concentration and allow the plasma filter unit to soak in it.
- ② Gently move up and down and to the right and left. A soft sponge can also be used to wipe the surface.
- ③ Rinse with clean water.
- ④ Shake the plasma filter unit to drain off the water. (If the plasma filter unit is extremely dirty, repeat Steps ① through ④ two or three more times.)
- ⑤ Place the plasma filter unit in the shade and allow it to dry completely.

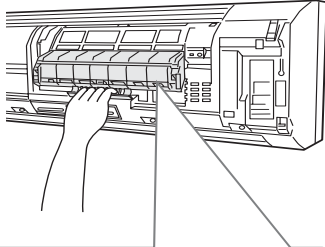


- Only use a mild synthetic laundry detergent (low alkalinity or isotope detergent).
- Never disassemble the plasma filter unit.
- Never soak the plasma filter unit in hot water.
- Never wipe the plasma filter unit with a scrub brush or other hard or abrasive items. This will damage the honey comb filter.
- Never insert a brush into the inside of plasma filter unit for washing. This will damage the internal parts and cause malfunctioning of the plasma filter unit.
- Never use dryer or other device to blow hot air on the plasma filter unit. This will cause deformation or other damage.
- Before re-installing the unit, please wait until it is completely dry. If the unit is installed when still wet and then put into operation, the OPERATION Indicator Lamp (red) and the TIMER Indicator Lamp (green) will flash and Air Cleaning will stop.

Cleaning the dust collection unit

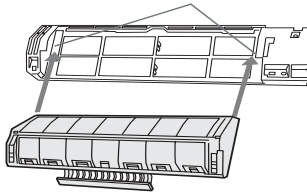
5. Install the unit.

(The above figure is only for reference, so the intake grille is not included.)

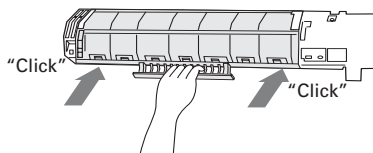


- ① Align the two ends of the dust collection unit with the guide rail and slide in.

Guide rail



- ② Slide in until it clicks.



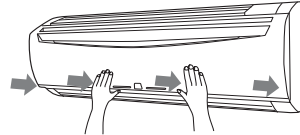
- Please ensure that the dust collection unit is completely dry before installing.
- After installing the dust collection unit, please ensure that it has been inserted fully into its place. If it has not been installed correctly, the OPERATION Indicator Lamp (red) and the TIMER Indicator Lamp (green) will flash, and Air Cleaning will stop.

6. Install the air filter.

- Please consult instructions for cleaning the air filter on page 13.

7. Close the intake grille.

Push the intake grill in at 4 points (the two ends of its lower side as well as two center points of the lower side, as shown in the figure) to close it.



Please ensure that the intake grille is closed properly.

- If, after cleaning the dust collection unit, the operation indicator lamp and the timer indicator lamp flash during Air Cleaning, please ensure that the unit is not damp and that the intake grille is properly closed.
- If, after having checked that the unit is fully dry and that the intake grille is closed properly, the indicator lamps continue to flash, the dust collection unit may be damaged. Please consult an authorised dealer to obtain a replacement.

WARNING!

- Be sure the Intake Grille (Fig. 4 ⑨) is installed securely.

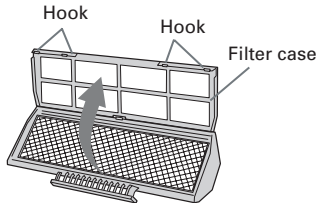
How to install or remove the Air-cleaning and Deodorizing filter

1. Remove the dust-collecting unit.

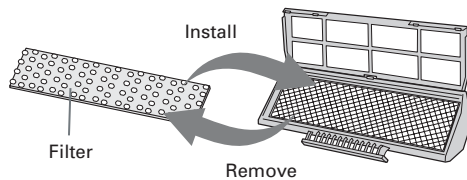
- Please consult steps 1 and 2 of cleaning the dust-collecting unit on page 14.

2. Install or remove the Air-cleaning and Deodorizing filter into the unit.

- ① Open the filter case inside the dust-collecting unit.

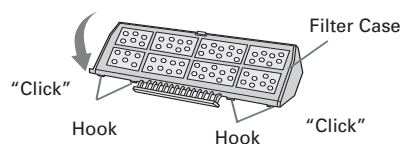


- ② Insert or remove the Air-cleaning and Deodorizing filter into the dust-collecting unit.



- Please place the air cleaning & deodorizing filter, with the black surface upward.

- ③ Close the filter case.



- Please ensure that the filter case is properly closed. If the filter case is not properly closed, the filter could fall out.

3. Install the dust-collection unit.

- Please consult steps 5, 6 and 7 of cleaning the dust-collection unit on page 15.

* When removing the filter, please follow these steps backwards.

Air-cleaning and Deodorizing filter maintenance

As well as ensuring the maintenance of the dust collecting unit, please also take care of the filter. (Please carry out maintenance on the filter every 6 months.)

1. Open the intake grille and remove the air filter from the right side.

- Please consult step 1 of cleaning the air filter on page 13.

2. Take out the unit and remove the Air-cleaning and Deodorizing filter.

- Please consult steps 2 and 3 of cleaning the air filter on page 14.

3. Air-dry after washing.

- ① Wash using lukewarm or warm water. If quite dirty, wash using a mild detergent.

Please do not rub the filter, it may cause its Air-cleaning performance to be reduced.

- ② Rinse it under running water.

- ③ Allow it to dry thoroughly in a shaded place.

4. Install the Air-cleaning and Deodorizing filter.

- Please consult the instructions on how to install the filter on page 16.

5. Install the air filter and close the intake grille.

- Please consult step 3 of cleaning the air filter on page 13.

Regarding the Air-cleaning and Deodorizing filter

- Please change the filter approximately every 2 years to ensure good Air-cleaning performance. (This is only possible if the filter is cleaned once every six months)

When changing the filter, please make sure you purchase the correct model (UTR-FA14).

- Please only install filters that are licensed by our company.

- Regarding storage and care of the filter, please avoid exposing it to high temperatures and high humidity. Also, use it as soon as possible after opening its packaging.

TROUBLESHOOTING



WARNING!

In the event of a malfunction (burning smell, etc.), immediately stop operation, disconnect the Power Supply Plug, and consult authorized service personnel.

Merely turning off the unit's power switch will not completely disconnect the unit from the power source. Always be sure to disconnect the Power Supply Plug or turn off your circuit breaker to ensure that power is completely off.

Before requesting service, perform the following checks:

	Symptom	Problem	See Page
NORMAL FUNCTION	Doesn't operate immediately:	<ul style="list-style-type: none"> ● If the unit is stopped and then immediately started again, the compressor will not operate for about 3 minutes, in order to prevent fuse blowouts. ● Whenever the Power Supply Plug is disconnected and then re-connected to a power outlet, the protection circuit will operate for about 3 minutes, preventing unit operation during that period. 	—
	Noise is heard:	<ul style="list-style-type: none"> ● During operation and immediately after stopping the unit, the sound of water flowing in the air conditioner's piping may be heard. Also, noise may be particularly noticeable for about 2 to 3 minutes after starting operation (sound of coolant flowing). ● During operation, a slight squeaking sound may be heard. This is the result of minute expansion and contraction of the front cover due to temperature changes. 	—
		<ul style="list-style-type: none"> ● During Heating operation, a sizzling sound may be heard occasional. This sound is produced by the Automatic Defrosting operation. 	18
	Smells:	<ul style="list-style-type: none"> ● Some smell may be emitted from the indoor unit. This smell is the result of room smells (furniture, tobacco, etc.) which have been taken into the air conditioner. 	—
	Mist or steam are emitted:	<ul style="list-style-type: none"> ● During Cooling or Dry operation, a thin mist may be seen emitted from the indoor unit. This results from the sudden Cooling of room air by the air emitted from the air conditioner, resulting in condensation and misting. 	—
		<ul style="list-style-type: none"> ● During Heating operation, the outdoor unit's fan may stop, and steam may be seen rising from the unit. This is due to Automatic Defrosting operation. 	18
	Airflow is weak or stops:	<ul style="list-style-type: none"> ● When Heating operation is started, fan speed is temporarily very low, to allow internal parts to warm up. 	—
		<ul style="list-style-type: none"> ● During Heating operation, if the room temperature rises above the thermostat setting, the outdoor unit will stop, and the indoor unit will operate at very low fan speed. If you wish to warm the room further, set the thermostat for a higher setting. 	—
		<ul style="list-style-type: none"> ● During Heating operation, the unit will temporarily stop operation (between 7 and 15 minutes) as the Automatic Defrosting mode operates. During Automatic Defrosting operation, the OPERATION Indicator Lamp will flash. 	18
		<ul style="list-style-type: none"> ● The fan may operate at very low speed during Dry operation or when the unit is monitoring the room's temperature. 	6
		<ul style="list-style-type: none"> ● During SUPER QUIET operation, the fan will operate at very low speed. 	6
		<ul style="list-style-type: none"> ● In the monitor AUTO operation, the fan will operate at very low speed. 	6
Water is produced from the outdoor unit:	<ul style="list-style-type: none"> ● During Heating operation, water may be produced from the outdoor unit due to Automatic Defrosting operation. 	18	
The AIR CLEAN Indicator Lamp (green) will begin to slowly flash (as shown in the figure):	<ul style="list-style-type: none"> ● After approximately 400 hours of Air Cleaning Mode use, the AIR CLEAN Indicator Lamp will begin to flash slowly (as shown in the figure). When this occurs, please stop the system, remove the mains socket and carry out maintenance on the dust collecting unit's air filter. 	14-15	
The AIR CLEAN Indicator Lamp (green) will begin to flash quickly (as shown in the figure):	<ul style="list-style-type: none"> ● After approximately 500 hours of Air Cleaning Mode use, the AIR CLEAN Indicator Lamp will begin to flash quickly (as shown in the figure). At this point, Air Cleaning will stop functioning. Please stop the system, remove the mains socket and carry out maintenance on the dust collecting unit's air filter. 	14-15	

TROUBLESHOOTING

	Symptom	Items to check	See Page
CHECK ONCE MORE	Doesn't operate at all:	<ul style="list-style-type: none"> ● Is the Power Supply Plug disconnected its outlet? ● Has there been a power failure? ● Has a fuse blown out, or a circuit breaker been tripped? 	—
		<ul style="list-style-type: none"> ● Is the timer operating? 	9 - 10
	Poor Cooling performance:	<ul style="list-style-type: none"> ● Is the Air Filter dirty? ● Air the air conditioner's intake grille or outlet port blocked? ● Did you adjust the room temperature settings (thermostat) correctly? ● Is there a window or door open? ● In the case of Cooling operation, is a window allowing bright sunlight to enter? (Close the curtains.) ● In the case of Cooling operation, are there heating apparatus and computers inside the room, or are there too many people in the room? 	—
		<ul style="list-style-type: none"> ● Is the unit set for SUPER QUIET operation? 	6
The unit operates differently from the Remote Control Unit's setting:	<ul style="list-style-type: none"> ● Are the Remote Control Unit's batteries dead? ● Are the Remote Control Unit's batteries loaded properly? 	5	

If the problem persists after performing these checks, or if you notice burning smells, or the OPERATION Indicator Lamp (Fig. 3 ⑤) and the TIMER Indicator Lamp (Fig. 3 ⑥) flashes, immediately stop operation, disconnect the Power Supply Plug (Fig. 1 ⑯), and consult authorized service personnel.

OPERATING TIPS

Operation and Performance

Heating Performance

- This air conditioner operates on the heat-pump principle, absorbing heat from outdoor air and transferring that heat indoors. As a result, the operating performance is reduced as outdoor air temperature drops. If you feel that insufficient heating performance is being produced, we recommend you use this air conditioner in conjunction with another kind of heating appliance.
- Heat-pump air conditioners heat your entire room by recirculating air throughout the room, with the result that some time may be required after first starting the air conditioner until the room is heated.

Microcomputer-controlled Automatic Defrosting

- When using the Heating mode under conditions of low outdoor temperature and high humidity, frost may form on the outdoor unit, resulting in reduced operating performance.

In order to prevent this kind of reduced performance, this unit is equipped with a Microcomputer-controlled Automatic Defrosting function. If frost forms, the air conditioner will temporarily stop, and the defrosting circuit will operate briefly (for about 7-15 minutes).

During Automatic Defrosting operation, the OPERATION Indicator Lamp (red) will flash.

AUTO Restart

In Event of Power Interruption

- The air conditioner power has been interrupted by a power failure. The air conditioner will then restart automatically in its previous mode when the power is restored.
- Operated by setting before the power failure.
- If a power failure occurs during TIMER operation, the timer will be reset and the unit will begin (or stop) operation at the new time setting. In the event that this kind of timer fault occurs the TIMER Indicator Lamp will flash (see Page. 4).
- Use of other electrical appliances (electric shaver, etc.) or nearby use of a wireless radio transmitter may cause the air conditioner to malfunction. In this event, temporarily disconnect the Power Supply Plug, reconnect it, and then use the Remote Control Unit to resume operation.

OPERATING TIPS

Temperature and Humidity Range

	Cooling Mode	Dry Mode	Heating Mode
Outdoor temperature	About -10 to 43 °C	About -10 to 43 °C	About -15 to 24 °C
Indoor temperature	About 18 to 32 °C	About 18 to 32 °C	About 30 °C or less

- If the air conditioner is used under higher temperature conditioner than those listed, the built-in protection circuit may operate to prevent internal circuit damage. Also, during Cooling and Dry modes, if the unit is used under conditions of lower temperature than those listed above, the heat-exchanger may freeze, leading to water leakage and other damage.
- Do not use this unit for any purposes other than the Cooling, Dehumidifying, and air-circulation of rooms in ordinary dwellings.
- If the unit is used for long periods under high-humidity conditions, condensation may form on the surface of the indoor unit, and drip onto the floor or other objects underneath. (About 80% or more)

Tips for saving energy

- When the outdoor temperature is low (about 10 °C or less), the unit will consume the power of 20~40W unless the power plug is disconnected from the outlet even if the air conditioner turns off.
- Remove the power plug to stop the power supply for energy saving when not using for a long time.