

Owner's manual **DUCTAIR™ II**



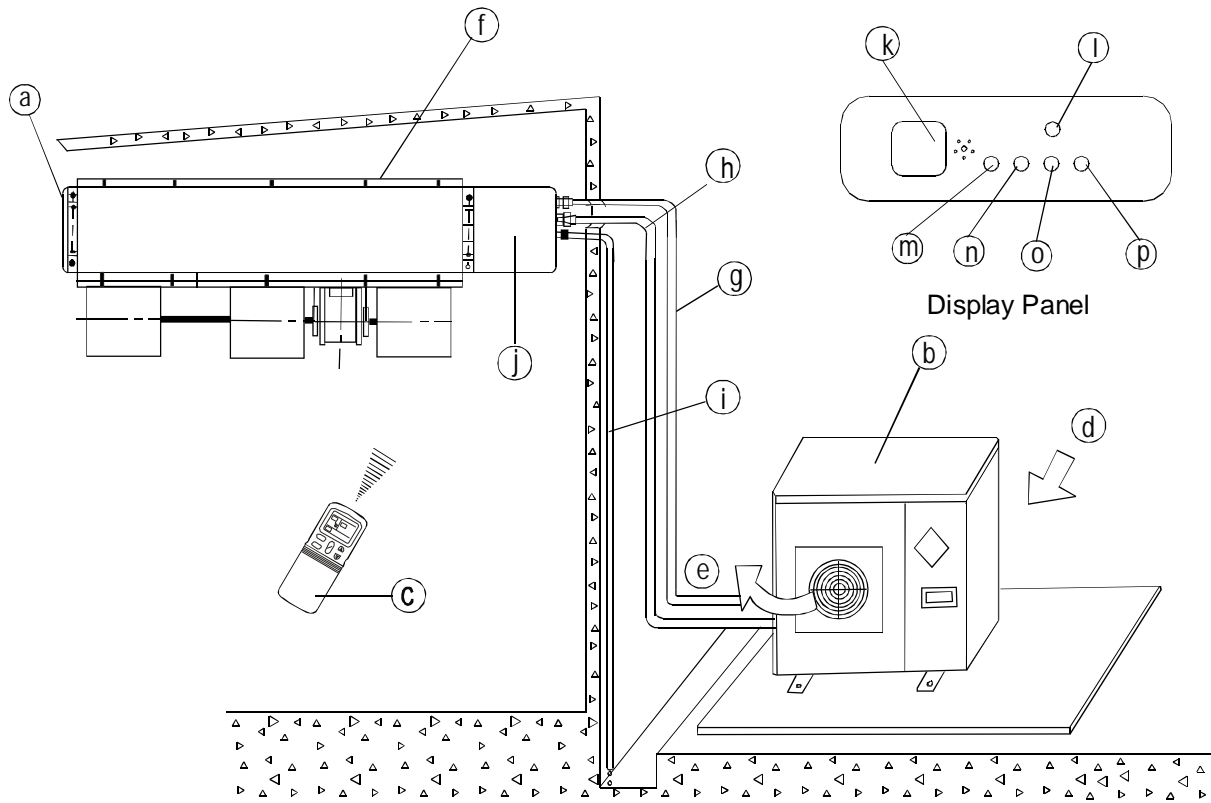
- Providing indoor climate comfort



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■ For Slim Duct Type



NOTICE!

This chart is based on 24000Btu/h. type. So, a few differences may exist on the outlook and functions from yours.

NAMES AND FUNCTIONS

Ⓐ	indoor unit	Ⓑ	outdoor unit	Ⓒ	remote controller
Ⓓ	air-inlet	Ⓔ	air-out	Ⓕ	air-outlet
		Ⓗ	ⓐ	Ⓖ	connecting pipe
Ⓙ	E-Box	Ⓢ	Ⓡ	Ⓣ	drain hose
Ⓚ	infrared signal receiver	Ⓛ	temporary button		
Ⓜ	operation lamp	Ⓞ	PRE./DEF.indicator (cooling and heating type) or fan only indicator (cooling only type)		
Ⓝ	timer indicator	Ⓟ	alarm indicator		

ADJUSTING AIR FLOW DIRECTION

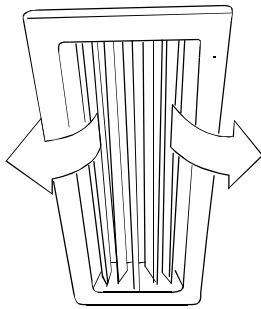
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Duct and Ceiling Type

The following is how to adjust air flow direction when air outlet part (separately saled) is used with the indoor unit.

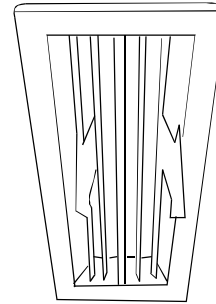
Cooling

To effectively cool the whole room, please set the louver so that the air can come out horizontally.



Heating

To effectively heat the bottom of the room, Please set the louver so that the air can come out downwards.





OPERATION ATTENTION

Read the owner manual book seriously before operating and mastering the mastering the main points. Please consult the local dealer in difficulty.

The air conditioner is designed to supply comfortable room circumstance. It is only used for the purpose according to the manual book.

1. Check before operating

- Check if the ground wire is broken or not connected.
- Check if the air filter is attached well.
- If the unit has not been used for a long time, it is recommended to clean the air filter before you using the unit. For continuous use, clean the air filter at least once every two weeks.

2. Safty caution

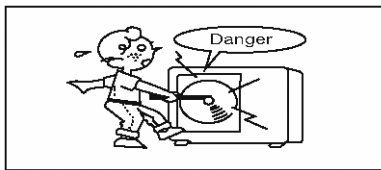
- Do not humidify the indoor unit and remote controller.
- Otherwise, it will cause electric shock or fire.
- Do not use or place flammable gas or liquid such as fixatue, paint or benzine near the air Conditioner.
- Do not touch the louver when it runs.
- Otherwise, your finger will be clamped or the drive parts will be broken.
- When the fuse blow, do not replace it with the unsuitable fuse or other wire.
- If the fuse is replaced with brass or iron wire, it will cause air conditioner damaged or fire.
- Do not insert any stick into the outlet or inlet.
- When the wheel runs in high speed, it is very danger that fan hits anything else.
- Do not remove the fan cover of outdoor unit.
- It will be danger that the fan runs in high speed without the cover.
- Do not turn on / off the the air conditioner by main power switch, please control the air conditioner by the on / off button on the remote controller.
- Do not let the kid play the units.
- Do not server the air conditioner yourself.
- Please commit server operation to the specified service person.
- Switch off the main power before cleaning filter net and machine body. Although it will not cause electric shock when replacing and cleaning the filter net, cleaning the machine body with dry cloth normally with the double protection from accident electric shock, for the absolute safety of users, routine maintenance should be carried on after switching off the power.

Air conditioner operating conditions

For proper performance, run the air conditioner under the following temperature conditions:

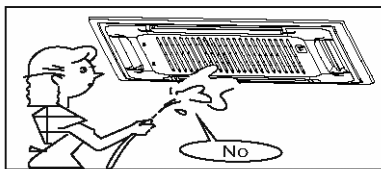
Cooling operation	Outdoor temperature: 18 to 43 °C
	Room temperature: above 17 °C
Heating operating (cooling only type without)	Outdoor temperature: -7 to 24 °C
	Room temperature: under 30 °C
Dry operation	Outdoor temperature: 11 to 43 °C
	Room temperature: 17 to 32 °C

If air conditioner is used beyond the above conditions, safety protection features may come into operation.



⚠ CAUTION

Do not attempt to install this unit by yourself. This unit requires installation by qualified persons.

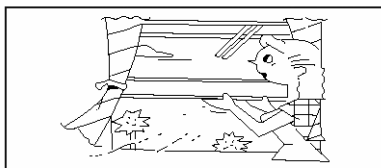


⚠ DANGER

Do not attempt to service the unit yourself. This unit has no user serviceable components. Opening or removing the cover will expose you to dangerous voltage. Turning off the power supply will not prevent potential electric shock.

⚠ DANGER

Never put hands or objects into the Air Outlet of indoor or outdoor units. These units are installed with a fan running at high speed. To touch the moving fan will cause serious injury.

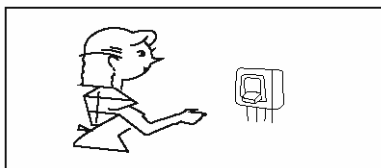


⚠ DANGER

To avoid the risk of serious electrical shock, Never sprinkle or spill water or liquids on unit.

⚠ WARNING

Ventilate the room regularly while the air conditioner is in use, especially if there is also a gas appliance in use in this room, Failure to follow these directions may result in a loss of oxygen in the room.



⚠ WARNING

To prevent electric shock, turn off the power or disconnect the power supply plug before beginning any cleaning or other routine maintenance. Follow the directions for cleaning in the Owner's Manual.

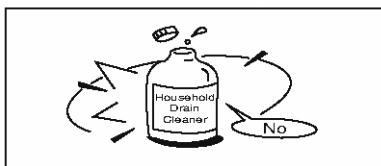


⚠ WARNING

Do not use liquid cleaners or aerosol cleaners, use a soft and dry cloth for cleaning the unit. To avoid electric shock, never attempt to clean the units by sprinkling water.

⚠ CAUTION

Do not use caustic household drain cleaners in the unit. Drain cleaners can quickly destroy the unit components (drain pan and heat exchanger coil etc).

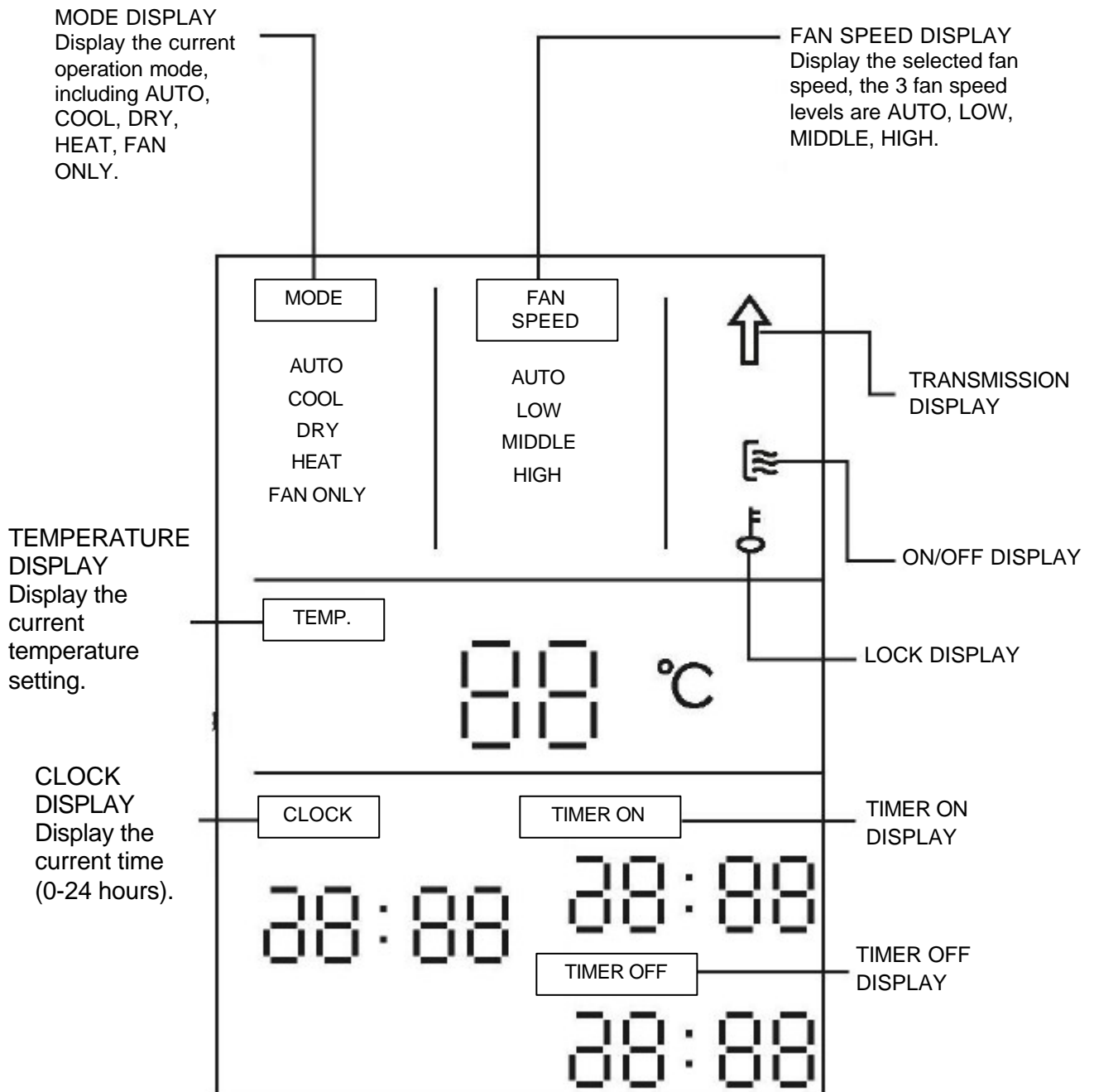


⚠ NOTE

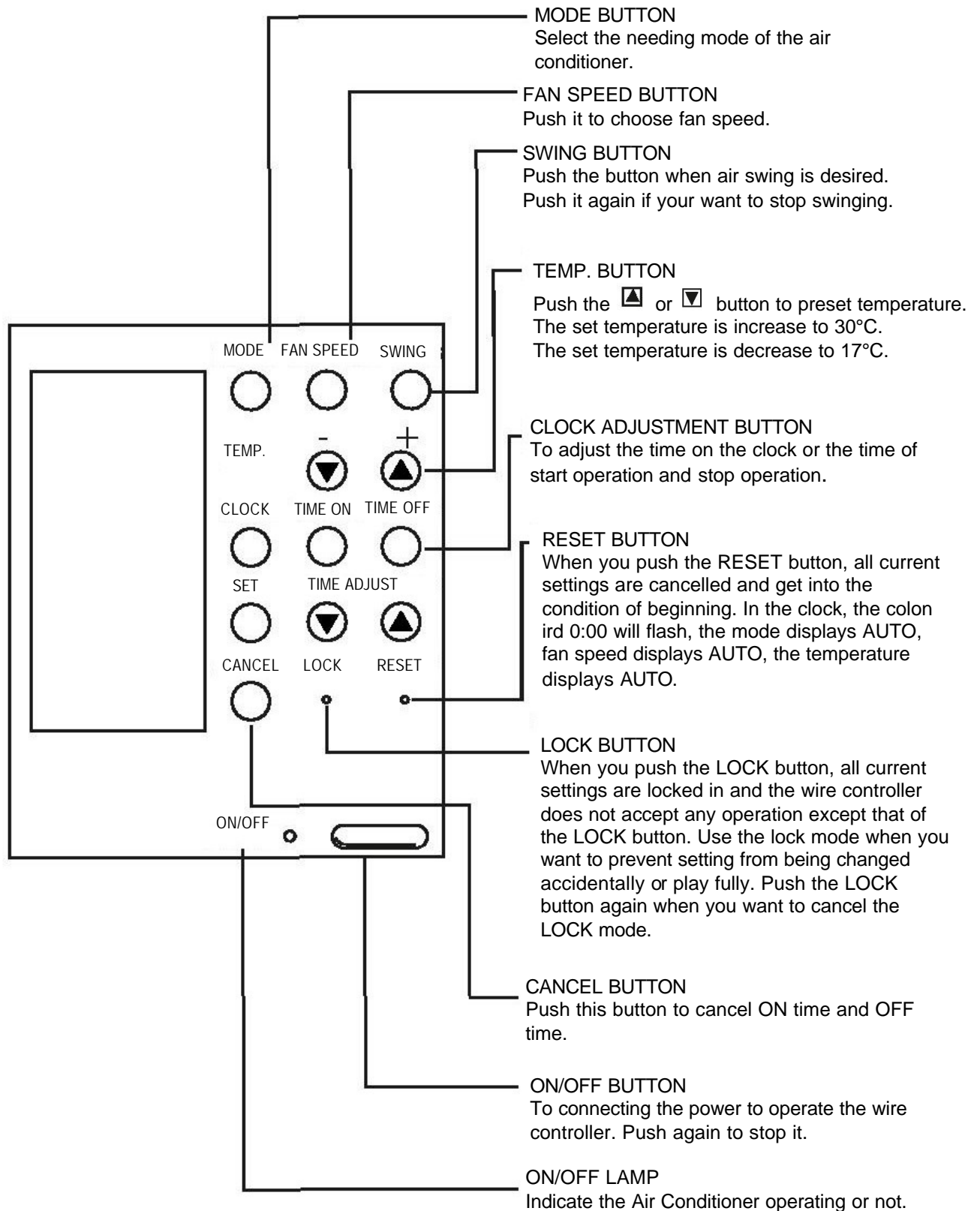
For proper performance, operate the unit in temperature and humidity ranges indicated in this owner's manual. If the unit is operated beyond these conditions, it may cause malfunctions of the unit or dew dripping from the unit.

WIRE CONTROLLER

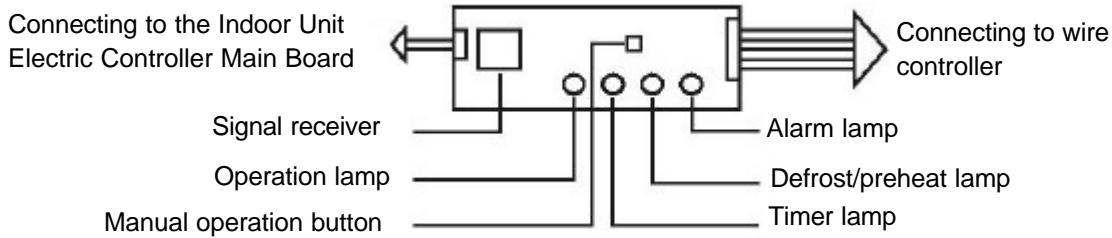
NAME AND FUNCTION OF INDICATORS OF THE WIRE CONTROLLER



WIRE CONTROLLER AND THEIR FUNCTIONS



NAMES OF SIGNAL RECEIVER ON WIRE CONTROLLER



INITIAL STATE OF THE WIRE CONTROLLER

When the central controller is connected to the power of the first time, symbols on the LCD will all be on for 2 seconds. Then it automatically shift to CLOCK 0:00, “.” is flashing. The MODE is AUTO, FAN SPEED is AUTO, TEMP. indicated 24.

ADJUSTING AIR FLOW DIRECTION

While the unit is in operation, you can adjust the airflow louver to change the flow direction and naturalize the room temperature evenly. Thus you can enjoy it more comfortably.

1. Set the desired airflow direction.
Push the SWING button to adjust the louver to the desired position and push this button again to maintain the louver at this position.
2. Adjust the air flow direction automatically.
Push the |swing| button, the louver will swing automatically.

While this function is set, the swing fan of indoor unit runs; otherwise, the swing fan does not run. The swing scale of every side is 30°. When the air conditioner is not in operation (including when "TIMER ON" is set), the SWING button will be disabled

AUTOMATIC OPERATION

1. START

Mode select button (MODE)

Select "AUTO".

Temperature button (TEMP)

Set the desired temperature. Normally, set it 21GC to 28°C

ON/OFF button

The OPERATION lamp on the display panel lights. The operation mode is selected among COOLING, HEATING (Cooling only type without) or FAN ONLY operation according to the drop between the room temperature and the set one. The fan speed display will shown AUTO, and the fan speed will not be automatically controlled.

STOP

ON/OFF button

Push this button again to stop the air conditioner and the OPERATION lamp goes off.

COOLING/DRY/HEATING/FAN ONLY OPERATION

START

Mode select button (MODE)

Select "COOL", "DRY", "HEAT", or "FAN ONLY" mode.

Temperature button (TEMP)

Set the desired temperature by pushing the button  or .

Cooling: 17 to 30°C

Dry: 17 to 30°C

Heating: 17 to 30°C

Fan Only: TEMP is not displayed, TEMP Button is disable.

Fan speed button (FAN SPEED)

Select any one fan speed from "AUTO", "LOW", "MED", and "HIGH". Push the button, the fan speed will change on turn as above.

In the mode of DRY, the fan speed can not be selected; the fan speed will be always on AUTO.

NOTE: some air conditioners have no MED fan speed.

Confirm button (SET)

Push the button to confirm the current setting.

STOP ON/OFF button

Push this button again to stop the air conditioner and the OPERATION lamp goes off.

SETTING THE CLOCK


Before you start operating the air conditioner, set the clock of the wire controller using the procedures given in this section. The clock panel on the wire controller will display the time regardless of whether the air conditioner is in use or not.

INITIAL SETTING

When the wire controller is connected to the power, the clock panel will display "0:00" and the colon will flash.

1. Time adjust button (TIME ADJUST)

- push this button to set time.

 Forward.

 Backward.

- Each time you push the button, the time moves forward or backward by one minute depending on which side you Push. If you keep on push the button, the number will change 30 minutes/s as your push.

2. Confirm button (SET)

When you push the SET button, the clock time display stops flashing and the clock starts operating.

3. Readjusting the clock

Push the CLOCK button in the battery compartment, the colon in the clock display will start to flash. To set the new time, follow 1 and 2 of Initial Setting of the Clock.

- Clock accuracy is within 10 seconds per day.

CAUTION:

Static electricity or other factors (in case of extremely high voltage) can cause the clock of wire controller to re-initialize. If your wire controller is initialized (flashing of the colon in 0:00), readjust the clock before you start operation.

TIMER OPERATION

1. TIME ON/OFF button
 - Push the TIME ON or OFF button as required. The current timer setting is displayed along with TIMER ON or OFF indicator, and the colon in the timer setting will flash.
2. Time adjust button (TIMEADJUST)
 - Push to set the desired time.

▲ Forward.

▼ Backward.

- Each time you push the button the time moves forward or backward by 10 minutes depending on which side you push. If you keep on push the button, the number will change 30 minutes/s as your push.
When TIME ON or TIME OFF, push the SET button, ":" will stop flash, the clock will begin to operate. The TRANSMISSION DISPLAY colon will flash, the indoor unit sounds and the air conditioner will start and stop operation according the setting time.
- 3. Cancel button(CANCEL)
Push the CANCEL button to cancel the timer setting.

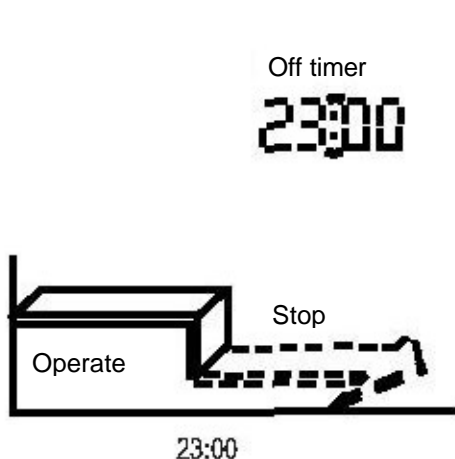
Changing

Perform steps 1, 2 and 3 to change the setting.

CAUTIONS:

- The effective operation time set by wire controller is limited in 24 hours.
- The timer will not work if TIME ON and OFF are set at the same time.

EXAMPLE OF TIMER SETTING



OFF TIMER

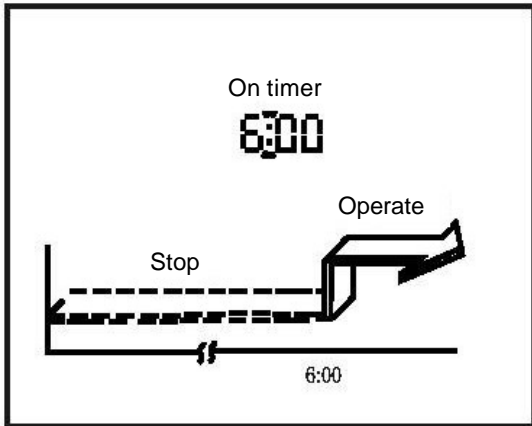
(Operation → Stop)

The OFF-time feature is useful when you go to sleep. The air conditioner will stop automatically at the time set.

Example:

To stop the air conditioner at 23:00 p.m.

- Push the TIME OFF button. The last setting time is displayed, and the colon is flashing for confirmation.
- Use the TIME ADJUST button to display "23:00" on the TIMER OFF indicator of the wire controller.
- Push the SET button. The colon stops flashing and the setting is over.



TIMER ON

(Stop → Operation)

The ON timer feature is useful when you wake up in the morning or when you return home. The air conditioner will automatically start operating at the time set.

Example: To start the air conditioner at 6:00.

- Push the TIME ON button. The last set time is displayed, and the colon is flashing for confirmation.
- Use the TIME ADJUST button to display "6:00" on the TIME ON indicator of the wire controller.
- Push the SET button. The colon stops flashing and the setting is over.

COMBINED TIMER (Setting both ON and OFF timers simultaneously)

OFF timer → ON timer

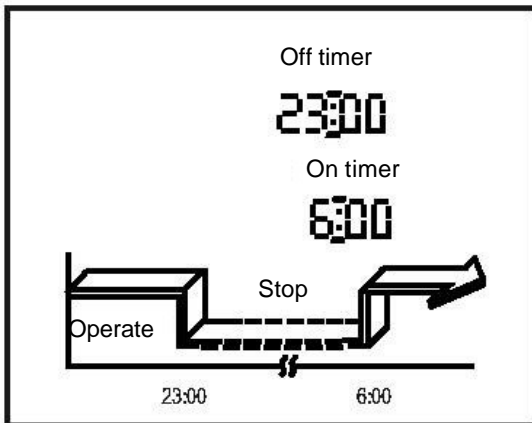
(Operation → Stop → Operation)

This feature is useful when you want to stop the air conditioner after you go to sleep, and start it again in the morning when you wake up or you return home.

Example:

To stop the air conditioner at 23:00 and start it again next morning at 6:00.

- Push the TIME OFF button. The last set time is displayed, and the colon is flashing for confirmation.
- Use the TIME ADJUST button to display "23:00" on the TIME OFF indicator.
- Push the TIME ON button. The last set time is displayed, and the colon is flashing for confirmation.
- Use the TIME ADJUST button to display "6:00" on the TIME ON indicator.
- Push the SET button. The colon stops flashing and the setting is over.



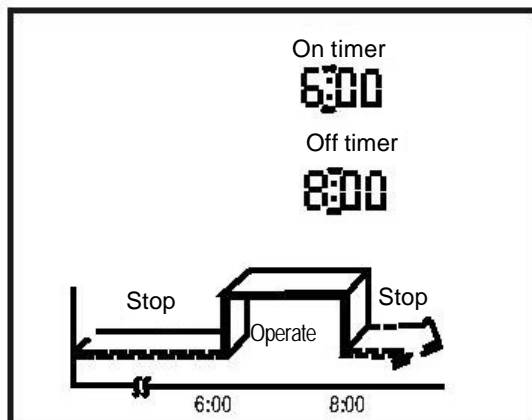
TIME ON → TIME OFF

(Stop → Operation → Stop)

You can use this setting to start the air conditioner when you wake up and stop it when you leave the house.

Example:

- To start the air conditioner at 6:00 next morning, and stop it at 8:00.
- Push the TIME ON button. The last set time is displayed, and the colon is flashing for confirmation.
- Use the TIME ADJUST button to display "6:00" on the TIMER ON indicator of the wire controller.
- Push the TIME OFF button. The last set time is displayed, and the colon is flashing for confirmation.
- Use the TIME ADJUST button to display "8:00" on the TIME OFF indicator.
- Push the SET button. The colon stops flashing and the setting is over.



RESET AND LOCK BUTTON FUNCTION

1. Use a small stick to push the RESET button
When you push the RESET button, all current settings are cancelled and get into the condition of beginning. In the clock, the icon in 0:00 and “.” will flash, the mode displays AUTO, fan speed displays AUTO and the temperature display “24”.
2. Use a small stick to push the LOCK button.
When you push the LOCK button, all current settings are locked in the remote controller does not accept any operation except that of the LOCK button. Use the lock mode when you want to prevent settings from being changed accidentally or playfully.
Push the LOCK button again to cancel the LOCK mode.




TEMPORARY OPERATION

This function is used to operate the unit temporarily in case the wire controller can not be used or testing the air conditioner.

When you choose the TEMPORARY mode, the air conditioner will operate as COOL (HIGH), the operation is not related to the indoor temperature. The wire controller is disable in such condition, and the wire controller can be used after cancel the TEMPORARY function

INDICATING AND MEANINGS OF THE WIRE CONTROLLER

1. The meanings of the LCD indicator:





INDICATOR	MODE	MEANING OF INDICATOR
	FLASHING	The wire controller is transmitting signal to the air conditioner.
	ILLUMINING	The air conditioner is operated.
	GOING OFF	The air conditioner is stop.
	ILLUMINING	The wire controller is in the mode of LOCK.
	GOING OFF	The wire controller is in the mode of UNLOCK.

2. The meanings of the mode lamp:

MODE	MEANING OF INDICATOR
The lamp goes off, the fan on LCD also goes off	The air conditioner is not operated.
The lamp goes off, the fan on LCD illumines	The air conditioner is in malfunction
The lamp goes off, the LCD also goes off	The wire controller is not connected to the power
The mode lamp is flashing	Waiting for signal or in malfunction
The mode lamp is on	The air conditioner is operating

ADDITIONAL EXPLANATION

General constant wire controller is available for cooling & heating type as default. Its function of Mid-speed Fan can be adjusted by the dial switch (SW1) in the main panel of wire controller, which is shown as follows:

			
SW1	SW1	SW1	SW1
1 ON 2 ON	1 ON 2 OFF	1 OFF 2 ON	1 OF 2 OFF
Mid-speed Fan cooling&heating	Mid-speed Fan cooling only	No mid-speed Fan cooling&heating	No mid-speed Fan cooling only

Customers can adjust it according to the model and their requirement. It is necessary to reelectrify after adjustment.

REMOTE CONTROLLER

Remote Controller Specifications

Rated Voltage	3.0V (Alkaline dry batteries LR03 X 2)
Lowest Voltage of CPU Emitting Signal	2.0V
Reaching Distance Signal Range	8 m (when using 3.0 voltage, it Gets 11 m)
Environment	-5 °C ~ 60 °C

Performance Feature

1. Operating Mod: COOL, HEAT, DRY, FAN and AUTO.
2. Timer Setting Function in 24 hours.
3. Indoor Setting Temperature Range: 17 °C - 30 °C.
4. LCD (Liquid Cristal Display) of all functions.

Introduction of Function Button on the Remote Controller

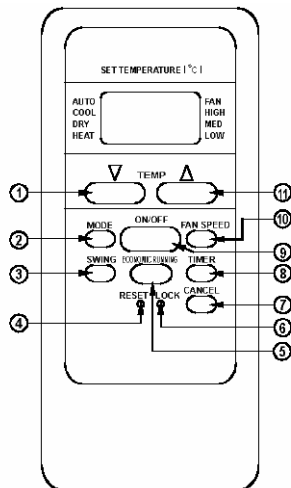


Fig. 1

Set temperature °C

AUTO
 COOL
 DRY
 HEAT
 FAN
 HIGH
 MED
 LOW
 ▼ TEMP. ▲
 MODE
 ON/OFF
 FAN SPEED
 SWING
 ECONOMIC RUNNING
 TIMER
 RESET
 LOCK
 CANCEL

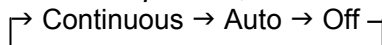
1. **TEMP Button ▼**: Push the button to make the indoor setting temperature decrease, or adjust the Timer in the anti-clockwise direction.
2. **MODE Select Button**: Each time you push the button, a mode is selected in a sequence that goes from AUTO, COOL, DRY, HEAT and FAN, as the following figure:

→ AUTO → COOL → DRY → HEAT → FAN →

▲ NOTE: HEAT only for Heat Pump

3. **SWING Button:** Pushing Chis switch button to change the swing angle of louver.
4. **RESET Button:** When push the RESET button, all the current settings are cancelled and get into the condition of the beginning.
5. **ECONOMIC RUNNING Button:** Push Chis button, it is Energy-Saving operation mode.
6. **LOCK Button:** Push the button, lock all the current settings, and another push, cancel the LOCK function.
7. **CANCEL Button:** To cancel the TIMER settings.
8. **TIMER Button:** This button is used to preset the time ON (start to operate) and the time OFF (turn off the operation).
9. **ON/OFF Button:** Push Chis button to start operation, push the button again to stop operation.
10. **FAN SPEED Button:** This button is used for setting Fan Speed in the sequence t h t goes from AUTO, LOW , MED to HIGH, then back to Auto.
11. **TEMP Button:** Push the button to make the indoor setting temperature increase, or adjust the Timer in the clockwise direction.

▲ NOTE: *VENTILATION Button: push this button to set the ventilating mode, each time when pushed, the ventilating mode operate as the following sequence:*



Ventilation Function is optional, only available for the Fresh Star Series.

Names and Functions of indicators on Remote Controller

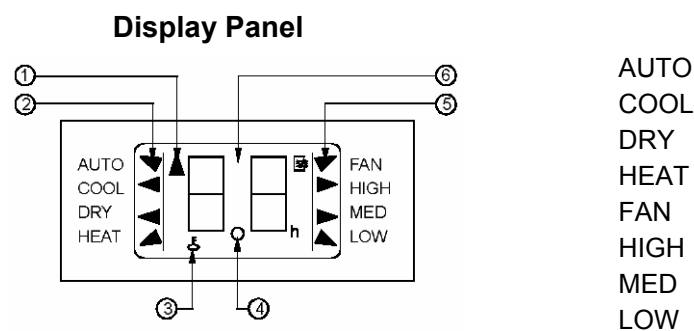


Fig. 2

1. **TRANSMISSION Indicator:** This indicator lights when remote controller transmits signals to indoor unit.
2. **MODE Display:** Show the current operation mode, includes AUTO, COOL DRY and HEAT.
3. **ONLY FOR HEAT PUMP LOCK Display Displayed:** By pushing the LOCK button push the LOCK button again to disappear.
4. **TIMER Display:** This display area show the settings of TIMER that is if only set the starting time of operation it will display the TIMER ON,if only set the turning off time of operation it will display the TIMER OFF, if set both it will show TIMER ON OFF, which indicate you have chosen to set the starting and off the operation of TIMER.
5. **FAN Display:** Push the FAN button Chis signal indicator lights.
6. **Digital Display:** Area as a rule Chis area will show the setting temperature and if on the TIMER condition it show the ON and OFF settings of TIMER.

▲ NOTE: *All items are shown in the Fig.2 for the purpose of clear presenta tion But during the actual operation only the relative functional items are shown on the display panel.*

Usage of the Remote Controller

Replacing Batteries

The Remote Controller uses two alkaline dry batteries (R03/Ir03X2).

1. For the first time of using Slide the back cover of the battery compartment, according the Direction (+and -)shown on the surface inserí a couple new batters.
2. To replace the old batteries in the same way as the mentioned aboye.

NOTE

1. *When replacing batteries do not use old batteries or different type batteries. Such using may cause the remoce controller to malfunction.*
2. *If you do not use the remoce controller for severa/ weeks remove the batteries. Otherwise battery leakage may damage the remoce controller.*
3. *The average battery life in the normal using way is about 6 months.*
4. *Replace the batteries when there is no receiving beep from the indoor unit or if the transmission indicator on the remoce controller fails to light.*

AUTOMATIC OPERATION

When the Air Conditioner is ready to be operated. Switch on the power and the OPERATION in dicator lamp on the display panel of the indoor unit starts flashing.

1. Mode select button MODE select AUTO.
2. Push the TEMP button to set the desired the temperature normally. The most comfortable, setting temperature is from 21 °C to 28°C.
3. Push the ON/OFF button to start the air conditioner. The OPERATION lamp on the display panel of the indoor unit lights. The operating mode is AUTO FAN SPEED is automatically set and there is no indicators shown on the display panel of the remoce controller.
4. Push the ON/OFF button again to stop the operation of air to conditioner.

NOTE

1. *On the Mode of AUTO the air conditioner can make a logic judgement to choose the mode of COOL, FAN, HEAT and DRY for cool only type according to difference between the actual indoor temperature and the setting temperature.*
2. *If the AUTO mode is not comfortable for you then select the desired mode manually.*

COOLING HEAT and FAN ONLY Operation

1. Push the MODE button select COOL, HEAT cooling only type without or FAN ONLY.
2. Push the TEMP button to set the desired temperature when cooling the better settings is 21 °C or aboye when heating the better settings is 28°C or below.
3. Push the FAN SPEED to select the FAN mode of AUTO, HIGH, MED or LOW.
4. Push the ON/OFF button, the operation lamp lights and the air conditioner start to operate as your settings. Push the ON/OFF button again to stop it.

NOTE

The FAN ONLY mode can not be used to control temperature. Therefore perform only steps of No.1. 3 and 4 to select Chis mode.

DRY Operation

1. Push the MODE button to select DRY.
2. Push the TEMP button to set the desired temperature from 21 °C to 28°C.
3. Push the ON/OFF button, the operation lamp lights and the air conditioner start to operate DRY. Push the ON/OFF button again to stop it.

NOTE

In light of the difference of the setting temperature and indoor temperature, Air Conditioner in DRY mode will automatically operate many times without running the COOL and FAN mode.

TIMER Operation

PUSH TIMER button to set the TIMER on time and TIMER off time.

1. Only set the starting time.

- 1.1 Please push the CANCEL button to cancel the former settings if there is.
- 1.2 Push the TIMER button, then the remote controller show the TIMER and the signal "h" was shown on the display panel. It is ready to readjust the TIMER ON to start the operation.
- 1.3 Push the TEMP button (▼ or ▲) to set desired time you want to start.
- 1.4 After finishing setting TIMER 0.5 second the remote controller will transmit the signal to the air conditioner. then after 2 seconds the digital area will show the temperature again.

2. Only set the stopping time.

- 2.1 Please press the CANCEL button to cancel the former settings if there is.
- 2.2 Push the TIMER button, then the remote controller shows the last setting of starting operation TIME and the signal "h" was shown on the display panel. It is ready to readjust the TIMER OFF to stop the operation.
- 2.3 Push the TEMP button to cancel the TIMER ON the digital area show "00".
- 2.4 Push the TIMER button and the remote controller show the last setting time of stopping the operation and the signal "h" will be shown on the display panel, it is ready to readjust to set the time of stopping operation.
- 2.5 Push the TEMP button (▼ or ▲) to set the time you want to stop the operation.
- 2.6 After finishing setting TIMER 0.5 second, the Remote Controller will transmit the signal to the Air Conditioner. Then after 2 seconds, the Digital Area will show the number of temperature again.

3. Set the starting & stopping time

- 3.1 Please push the CANCEL button to cancel the former settings if there is.
- 3.2 Push the TIMER button, then the remote controller show the last setting starting operation TIME and the signal "h" was shown on the display panel it is ready to readjust the TIMER ON to start the operation.
- 3.3 Push the TEMP button (▼ or ▲) to set the time you want to start the operation.
- 3.4 Push the TIMER button and the remote controller show the last setting time of stopping the operation and the signal "h" will be shown on the display panel. It is ready to readjust the Time of stopping operation.
- 3.5 Push the TEMP button (▼ or ▲) to set the time you want to stop the operation.
- 3.6 After finishing setting TIMER 0.5 second the remote controller will transmit the signal to the air conditioner. then after 2 seconds the digital area will show the of temperature again.

NOTE

1. Please reset the TIMER after canceling the former time settings.
2. The setting time is relative time that is the time you set is the delay of the current time.



Warning

1. Be sure there are no barriers between the remote controller and the receiver of indoor unit otherwise the air conditioner will not work.
2. Avoid any liquid or soaking the Remote Controller.
3. Keep the remote controller from the high temperature and radiation areas.
4. The receiver of the indoor unit can't not be uncovered under the direct sunlight. Otherwise the air conditioner will not work normally.
5. If there is EMI (Electro-Magnetic Interference) from other home appliances please remove the those appliances or contact with the local dealer.

MAINTENANCE

WARNING

Before you clean the air conditioner, be sure to disconnect the power supply plug.

Cleaning the indoor unit and remote controller

CAUTIONS

- Use a dry cloth to wipe the indoor unit and remote controller. A cloth dampened with cold water may be used on the indoor unit if it is very dirty. Never use a damp cloth on the remote controller.
- Do not use a themically-treted duster for wiping or leave such material on the unit for long, because it may damage or fade the surface of the unit.
- Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.

If you do not plan to use the unit for at least 1 month.

- (1) Operate the fan for about half a day to dry the inside of the unit.
- (2) Stop the air conditioner and disconnect power.
- (3) Remove the batteries from the remote controller.

Checks before operation

CAUTIONS

- Check that the wiring is not broken off or disconnected.
- Check that the air filter is installed. (Some air-conditioners haven't air filters.)
- Check that the outdoor unit air outlet or inlet is not blocked

Before you clean the air conditioner, be sure to disconnect the power supply plug.

Cleaning the air filter

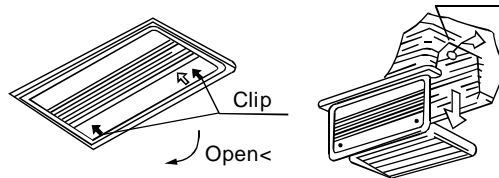
- The air filter can prevent the dust or other particulate from going inside .In case of blockage of the filter, the working efficiency of the air conditioner may greatly decrease. Therefore, the filter must be cleaned once two weeks during long time usage.
- If the air conditioner is positioned in a dust place, the cleaning frequency of the air filter must be increased.
- If the accumulated dust is too heavy to be cleaned, please replace the filter with a new one(replaceable air filter is an optional fitting).

■ Duct and Ceiling Type

1. Open the air-in grill

Push the grill switches towards the middle simultaneously as indicated in follow figure sketch. Then pull down the air-in grill.

Cautions: The control box cables ,which are originally connected with the main body electrical terminators must be pulled off before doing as indicated above.



2. Take out the air-in grill.

3. Dismantle the air filter

4. Clean the air filter (Vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy , please use soft brush and mild detergent to clean it and dry out in cool place) .

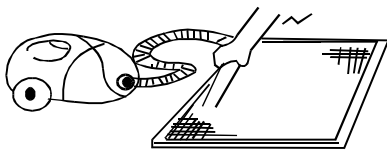


Fig. 1

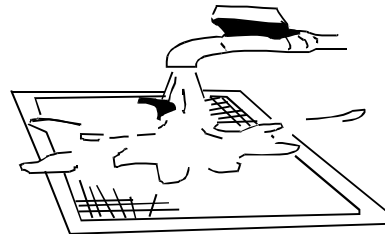


Fig. 2

- The air-in side should face up when using vacuum cleaner. (See Fig. 1)
- The air-in side should face down when using water. (See Fig. 2)

Cautions : Do not dry out the air filter under direct sunshine or with fire.

5. Re-install the air filter

6. Install and close the air-in grill in the reverse order of step 1 and 2 and connect the control box cables to the corresponding terminators of the main body .

Note: High-static Pressure Parvis Split Type has no air filter.

AIR CONDITIONER OPERATIONS AND PERFORMANCE

Three-minute protection feature

A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it restarts immediately after operation.

Power failure

Power failure during operation will stop the unit completely.

- The OPERATION lamp on the indoor unit will start flashing when power is restored.
- To restart operation, push the ON/OFF button on the remote controller.
- Lightning or a car wireless telephone operating nearby may cause the unit to malfunction.

Disconnect the unit with the power and then connect the unit with the power again. Push the ON/OFF button on the remote controller to restart operation.

Air conditioner operating conditions

For proper performance, run the air conditioner under the following temperature conditions:

Cooling operation	Outdoor temperature: 21 to 43°C
	Room temperature: 17 to 32°C
	CAUTION Room relative humidity less than 80%. If the air conditioner operates in excess of this figure, the surface of the air conditioner may attract condensation.
Heating operating (cooling only type without)	Outdoor temperature: -5 to 24°C
	Room temperature: 0 to 30°C
Dry operation	Outdoor temperature: 11 to 43°C
	Room temperature: 17 to 30°C

If air conditioner is used beyond the above conditions, safety protection features may come into operation.

INSTALLATION

Location:

- During cooling operation, the air conditioner will dry the room air, so please fix a pipe to drain all the water away from the air conditioner.
- Please let the indoor unit more than one metre away from the TV set and the radio in order to avoid the picture and noise interference.
- Powerful radio transmitters or any other devices radiating high frequency radio waves can cause the air conditioner to malfunction. Please consult the dealer where you purchased the air conditioner before installing it.
- Don't fix the unit in the dangerous region with combustible gas or volatile matter.
- If the air conditioner operates in an atmosphere containing oils (machine oil), salt (near a coastal area), sulfide gas (near a hot spring), etc., such substances may lead to failure of the air conditioner.

Be careful of noise or vibrations

- Please fix the unit in the stable place to avoid the noise or vibrations.
- The noise near the air outlet of the outdoor unit may enter the air exit.
- Locate the outdoor unit where noise emitted by it or hot air from its air outlet will cause no nuisance to your neighbours.
- If the air conditioner sounds abnormal during operation, contact the dealer where you purchased the air conditioner.

Wire

- To avoid the electric shock, please link the air conditioner with the ground. The plug in the air conditioner has joined the ground wiring, please don't change it freely.
- The power socket is used as the air conditioner specially.
- Don't pull the power wiring hard.
- When linking the air conditioner with the ground, observe the local rulers.
- If necessary, use the power fuse or the circuit, breaker or the corresponding scale ampere.
If you want to change the power wiring, please contact the centre service of the local MD electric appliance.

Relocation

If you move out or if it is desired to relocate the air conditioner, consult your dealer, because special skills to withdraw Freon, purge air and perform other operations are required.

TROUBLES AND CAUSES

Before you ask for servicing or repairs, Check the following points.

ReCheck

Inoperative

- The power fuse is blown or the circuit breaker has been tripped.
- The batteries in the remote controller are exhausted.
- The timer is set.

Does not cool or heat well.

- The air inlet or outlet of the outdoor unit is blocked.
- Doors or windows are open.
- The air filter is clogged with dust.
- The louver is not at the correct position.
- The fan speed is set to low.
- The temperature setting is too high or too low.

These are not failures

Room air is smelly.

A bad odor comes from the air conditioner.

- Smells impregnated in the wall, carpet, furniture, clothing, or furs, are coming out. A white mist of chilled air or water is generated from the outdoor unit.

CAUTIONS

If any of the following conditions occur, stop the air conditioner immediately, set to off the power switch, and contact the dealer:

- The indicator lamps flash rapidly (five times per second), you disconnect the unit with the power and then connect the unit with the power again after two or three minutes but the lamps still flash.
- Switch operations are erratic.
- The fuse is blown frequently or the circuit breaker is tripped frequently.
- Foreign matter or water has fallen inside the air conditioner.
- Any other unusual condition is observed.

TROUBLES AND CAUSES (REMOTE CONTROLLER)

Before you ask for servicing or repairs, Check the following points.

Setting Change is Impossible		
Symptoms	Causes	Reason and Disposal
The fan speed can not be changed.	<ul style="list-style-type: none"> • Check whether the MODE indicated on the display is "AUTO" 	When the automatic mode is selected, the air conditioner automatically selects the fan speed.
	<ul style="list-style-type: none"> • Check whether the MODE indicated on the display is "DRY" 	When dry operation is selected, the air conditioner automatically select the fan speed. The fanspeed can be selected during "COOL" and "FAN ONLY", and "HEAT"

The Transmission Indicator "▲" Never Comes On		
Symptoms	Causes	Reason and Disposal
The remote control signal is not transmitted even when the ON/OFF button is pushed.	<ul style="list-style-type: none"> • Check whether the batteries in the remote controller are exhausted. 	<ul style="list-style-type: none"> • The remote control signal is not transmitted, because the power supply is off.

The Display Never Comes On		
Symptoms	Causes	Reason
The TEMP. indicator does not come on.	<ul style="list-style-type: none"> • Check whether the MODE indicated on the display is "FAN ONLY". FAN ONLY 	The temperature cannot be set during fan only operation.

The Display Goes Off		
Symptoms	Causes	Reason
The indication on the display disappears after a lapse of time.	<ul style="list-style-type: none"> • Check whether the timer operation has come to an end when the OFF TIMER is indicated on the display. 	The air conditioner operation stops since the set time elapsed.
The ON TIMER indicators go off after a lapse of certain time.	<ul style="list-style-type: none"> • Check whether the timer operation is started when the ON TIMER is indicated on the display. 	When the time set to start the air conditioner is reached, the air conditioner will automatically start and the appropriate indicator will go off.

The Signal Receiving Tone does Not Sound		
Symptoms	Causes	Disposal
No receiving tone sounds from the indoor unit even when the ON/OFF button is pushed.	<ul style="list-style-type: none"> • Check whether the signal transmitter of the remote controller is properly directed to the receiver of the indoor unit when the ON/OFF button is pushed. 	Direct the signal transmitter of the remote controller to the receiver of the indoor unit, and then repeatedly push the ON/ OFF button twice.
Buttons on the remote controller don't work.		Press Reset button.



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