Com Air Conditioners

Z Series Inverter Range Split Type DC Inverter

ECO950SD

ECO1250SD

Register your air conditioner

Model information can be found on the CE label.

Please register your product online at www.ecoair.org. For your future convenience, record the model information below.

MODEL NUMBER

SERIAL NUMBER

PURCHASE DATE

What's in the box

- 1 x Z Series Indoor Unit
- 1 x Z Series Outdoor Unit
- 1 x Remote Control
- 1 x Drain Hose
- 1 x User Manual
- 1 x Hole Cover Plate
- 1 x Drain Joint
- 4 x Wall Plugs and Screws.
- 1 set of Copper Pipes

This appliance can be used by minors from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should not play with the appliance. Cleaning and user maintenance shall not b e made by minors without supervision.



WEE/EC2601UF

This marking indicates that this product should not be disposed with other household waste throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources or return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

R410A(R32/125: 50/50): 1975

Content

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BS Plug Wiring

Wiring Instructions: Should it be necessary to change the plug please note the wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN – LIVE GREEN AND YELLOW - EARTH

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

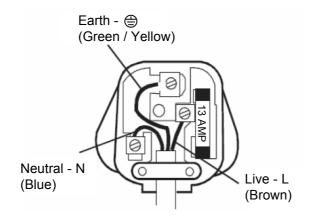
- 1. The **BLUE** wire is the **NEUTRAL** and must be connected to the terminal which is marked with the letter **N** or coloured **BLACK**.
- 2. The **BROWN** wire is the **LIVE** and must be connected to the terminal which is marked with the letter **L** or coloured **RED**.
- 3. The **GREEN/YELLOW** is the **EARTH** and must be connected to the terminal which is marked with the letter **E** or ⊕ or coloured **GREEN** or **GREEN/YELLOW**.
- 4. Always ensure that the cord grip is positioned and fastened correctly.

If a **13 Amp (BS 1363)** fused plug is used it must be fitted with a **13 Amp** fuse. If in doubt consult a qualified electrician. **(For 9000BTU and 12000BTU unit only.)**

(For 18000BTU use 20 Amp (fuse) supply from the main.) (For 24000BTU use 32 Amp (fuse) supply from the main.)

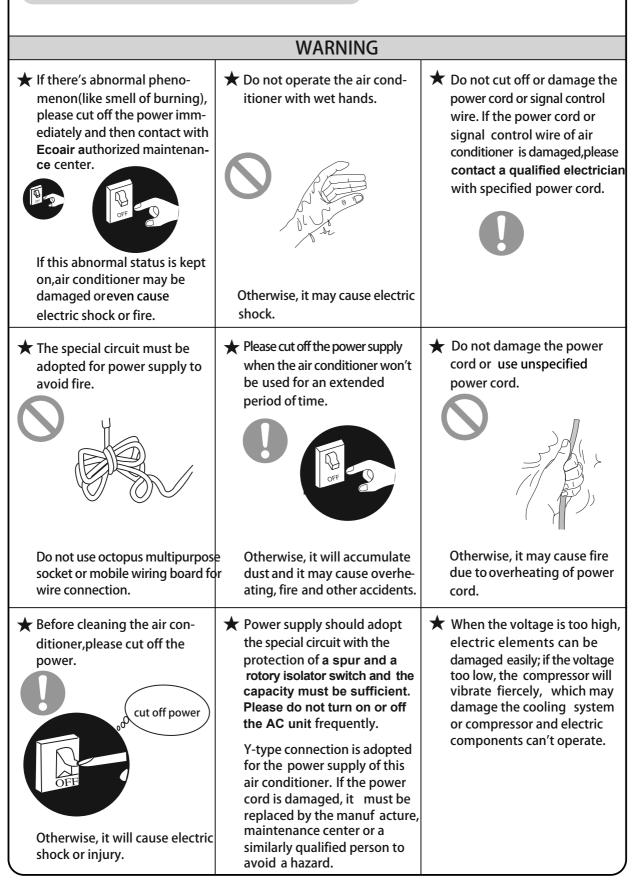
Wiring for a 13 Amp Plug (BS1363)

Please note. The Earth Terminal is marked with the letter **E** or \textcircled Earth Symbol.

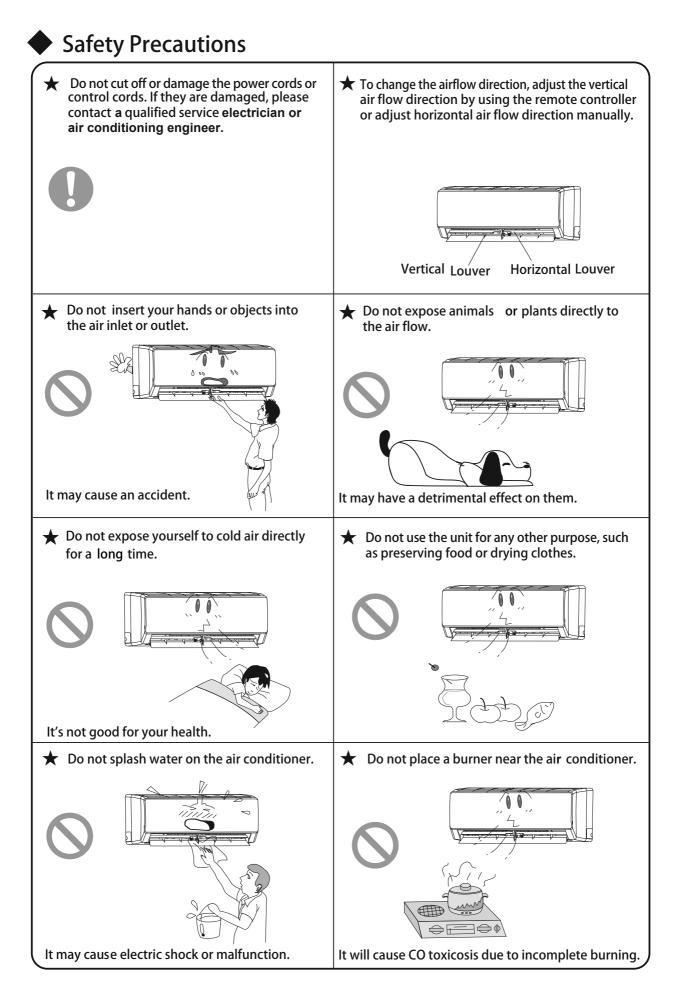


Safety Precautions

Please read the following notices before operation







Notices for use

Working principle and special functions for Cooling

Principle:

Air conditioner absorbs heat in the room and discharges the heat through the outdoor that indoor ambient temperature decreased, its cooling capacity will increase or decrease by outdoor ambient temperature.

Anti-freezing function:

If the unit is running in COOL mode and in low temperature, there will be frost formed on the heat exchanger, when indoor heat exchanger temperature decreased below 0°C indoor unit microcomputer will stop the compressor running to protect the unit.

Working principle and special functions for Heating

Principle:

- * Air conditioner absorbs heat from outdoor and discharges to indoor, in this way to increase room temperature. This is the heat pump heating principle, its heating capacity will be reduced due to outdoor temperature decrease.
- * If outdoor temperature becomes very low, please operate with other heating equipments.

Defrosting:

- * When outdoor temperature is low but high humidity, after a while running, frost will form on outdoor unit, that will affect the heating effect, at this time, the auto defrosting function will activate, the heating will stop for 8-10 mins.
- * During the auto defrosting, the fan motors of indoor unit and outdoor unit will stop.
- * During the defrosting, the indoor indicator flashes, the outdoor unit may emit vapor. This is due to the defrosting, it isn't a malfunction.
- * After defrosting finished, the heating will resume automatically.

The climate type of this unit is according to the nameplate.

The external static pressures at which the appliance was tested should be zero Pa.



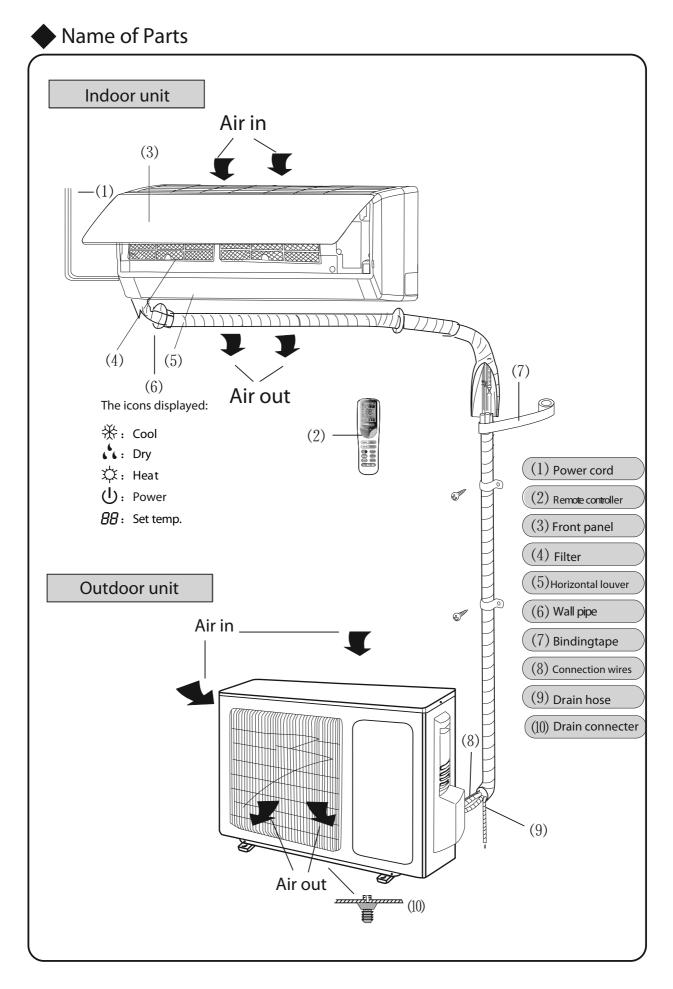
Anti-cool wind function:

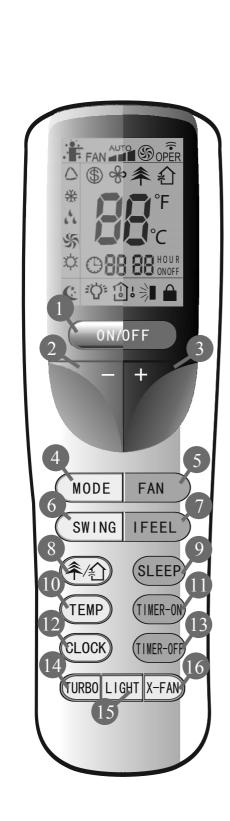
In "Heat" mode, under the following three kinds of state, if indoor heat exchanger doesn't arrive at certain temp, indoor fan will not act, in order to prevent cool wind blowing(within 2 mins):

1. Heating starts. 2. After Auto Defrost finished. 3. Heating under the low temperature.

※ Working temperature range		
	Indoor sideDB/WB(°C)	Outdoor sideDB/WB(°C)
Maximum cooling	32/23	40/26
Minimum cooling	21/15	21/
Maximum heating	27/—	24/18
Minimum heating	20/—	-5/-6

The operating temperature range (outdoor temperature) for cooling and heating unit is - 5°C ~40 °C.

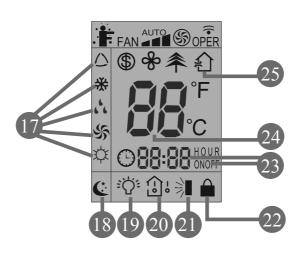




1 ON/OFF

Press it to start or stop operation.

- Press it to decrease temperature setting.
- 3 + : Press it to increase temperature setting.
- 4 MODE Press it to select operation mode (AUTO/COOL/DRY/FAN/HEAT).
- 5 FAN Press it to set fan speed.
- 6 SWING Pressit set swing angle.
- I FEEL(Page 10) (optional)
- 8 辛/纪 Press it to set HEALTH or AIR function.
- SLEEP(page 11)
- 10 TEMP(page 11)
- 11 TIMER ON Press it to set auto-on timer.
- 12 CLOCK Press it set clock.
- 13 TIMER OFF Pressit to set auto-off timer.
- 14 TURBO(page 11)
- 15 LIGHT Press it to turn on/off the light
- 16 X-FAN (page 11) (optional)



17 MODE icon:

If MODE button is pressed, current operation mode icon △(AUTO), ※ (COOL), ⁴ (DRY), ♣ (FAN) or ♀ (HEAT for heat pump models) will show.

18 SLEEP icon :

the SLEEP button Press this button in again to clear the display.

19 LIGHT icon:

is displayed by pressing the LIGHT button. Press LIGHT button again to clear the display.

²⁰ TEMP icon:

Pressing TEMP button, (set temperature), (indoor ambient temperature) (outdoor ambient temperature) is fitted.

21 Up & down swing icon: ⇒ is displayed when pressing the up & down swing down button. Press this button again to clear the display

22 LOCK icon:

is displayed by pressing "+" and "- " buttons simultaneously. press them again to clear the display.

23 SET TIME display:

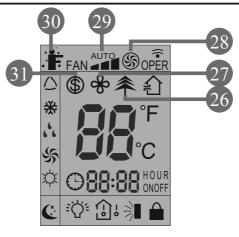
After pressing TIMER button, HOUR ON or OFF will blink. This area will show the set time.

24 DIGITAL display:

This area will show the set temperature. In SAVE mode,"SE" will be displayed.

25 AIR icon:

is displayed when pressing the AIR button.Press this button again to clear the display.



29

²⁶ HEALTH icon:

✤ is displayed when pressing the HEALTH button.Press this button again to clear the display.(optional)

27 X-FAN icon:

is displayed when pressing the
 X-FAN button Press this button
 again to clear the display. (optional)

TURBO icon:

28

(G) is displayed when pressing the TURBO button. Press this button again to clear the display.

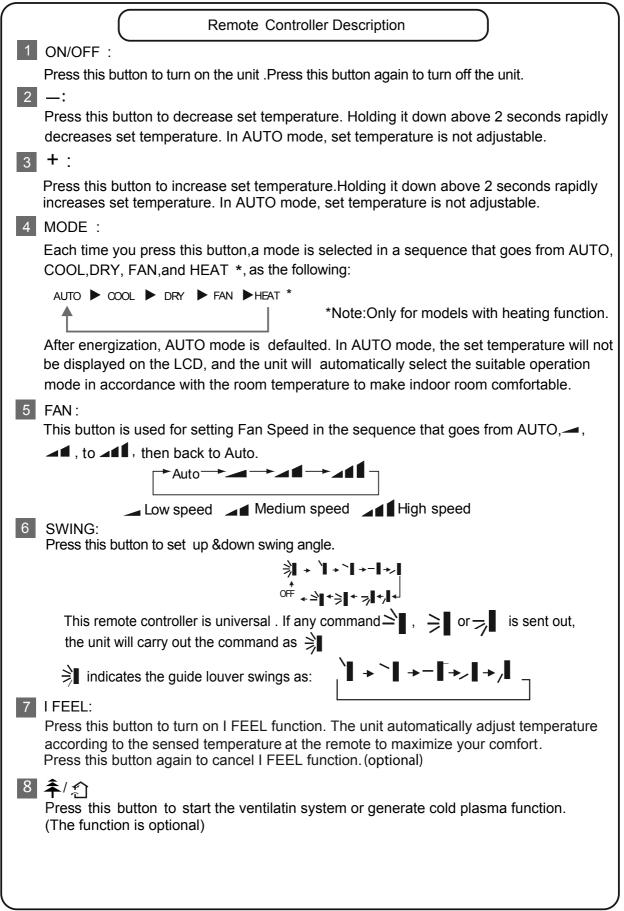
FAN SPEED display:

Press FAN button to select the desired fan speed setting(AUTO-Low-Med-High). Your selection will be displayed in the LCD windows, except the AUTO fan speed.

30 I FEEL icon:

is displayed when pressing the I FEEL button.Press this button again to clear the display. (optional)

31 8°C Heating icon: ⑤ is displayed when Pressing "TEMP" and "CLOCK" simultaneously in Heat mode (optional)



9 SLEEP :

Press this button to go into the SLEEP operation mode. Press it again to cancel this function. This function is available in COOL, HEAT (Only for models with heating function) or DRY mode to maintain the most comfortable temperature for you.

10 TEMP:

Pressing TEMP button, () (set temperature), () (indoor ambient temperature) and () (outdoor ambient temperature) (This feature is applicable to only some models) and blank is displayed circularly. The unit defaults not to display the icon. During operation of Temp button, the set temperature is always displayed.

11 TIMER ON :

Press this button to initiate the auto-ON timer. To cancel the auto-timer program, simply press this button again.

After pressing this button, disappears and "ON "blinks .00:00 is displayed for ON time setting. Within 5 seconds, press + or - button to adjust the time value. Every press of either button changes the time settings by 1 minute. Holding down eather button rapidly changes the time setting by 1 minute and then 10 minutes. Within seconds after setting, press TIMER ON button to confirm.

12 CLOCK :

Press CLOCK button \bigcirc blinking. Within 5 seconds, pressing + or - button adjusts the present time. Holding down either button above 2 seconds increases or decreases the time by 1 minute every 0.5 second and then by 10 minutes every 0.5 second. During blinking after setting, press CLOCK button again to confirm the setting, and then \bigcirc will be constantly displayed.

13 TIMER OFF :

Press this button to initiate the auto-off timer. To cancel the auto-timer program, simply press the button again.TIMER OFF setting is the same as TIMER ON.

14 TURBO:

Press this button to activate / deactivate the Turbo function which enables the unit to reach the preset temperature in the shortest time. In COOL mode, the unit will blow strong cooling air at super high fan speed. In HEAT mode, the unit will blow strong heating air at super high fan speed.

15 LIGHT:

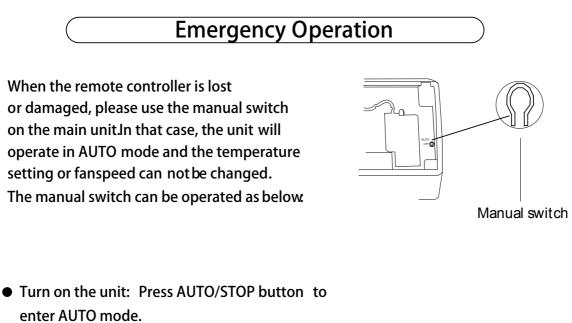
Press LIGHT button to turn on the display's light and press this button again to turn off the display's light. If the light is turned on , $\hat{\phi}$ is displayed. If the light is turned off, $\hat{\phi}$ disappears.

16 X-FAN: (Auto Clean) (Optional)

Pressing X-FAN button in COOL or DRY mode, the icon % is displayed and the indoor fan will continue operation for 10 minutes in order to dry the indoor unit even though you have turned off the unit. This is to keep indoor coil clean + heathly. After energization, X-FAN OFF is defaulted. X-FAN is not available in AUTO, FAN or HEAT mode.

 17 Combination of "+" and "-" buttons: About lock Press "# " and "-" buttons simultaneously to lock or unlock the keypad. If the remote controller is locked, is displayed. In this case, pressing any button, is blinks three times. 18 Combination of "MODE" and "-" buttons: About switch between Fahrenheit and centigrade At unit OFF, press "MODE" and "-" buttons simultaneously to switch between °C and °F. 19 Combination of "TEMP " and "CLOCK" buttons (optional) : About Energy-saving Function Press "TEMP" and "CLOCK" simultaneously in Cool mode to start energy-saving function. Nixie tube on the remote controller displays "SE". Repeat the operation to quit the function. 20 Combination of "TEMP " and "CLOCK" buttons (optional) : About 8 °C Heating Function.
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Nixie tube on the remote controller displays "SE". Repeat the operation to quit the function. 20 Combination of "TEMP " and "CLOCK" buttons (optional) : About 8 C Heating Function.
Press "TEMP" and "CLOCK" simultaneously in HEAT mode to 8 C Heating Function
Nixie tube on the remote controller displays" (\$) " and a selected temperature of "8°C."
(46°F if Fahrenheit is adopted). Repeat the operation to quit the function.
21 About Back-lighting Function
The unit lights for 4s when energizing for the first time, and 3s for later press.
Replacement of Batteries
1.Remove the battery cover plate from the rear of the remote controller.
(As shown in the figure)
2. Take out the old batteries.
3.Insert two new AAA1.5V dry batteries, and pay attention to the polarity.
4. Reinstall the battery cover plate.
★ Notes:
When replacing the batteries, do not use old or different types of batteries,
otherwise, it may cause malfunction.
If the remote controller will not be used for a long time, please remove batteries to prevent batteries from leaking.
 The operation should be performed in its receiving range.
 It should be kept 1m away from the TV set or stereo sound sets.
• If the remote controller does not operate normally, please take the Sketch map for replacing batteries
batteries out and reinsert them after 30 seconds. If it still can't operate properly
replace the batteries.

Emergency Operation



The microcomputer will select the mode (COOL, HEAT, FAN) automatically according to the room temperature for reaching comfortable effect.

- Turn off the unit: Press the AUTO/STOP button to switch off the unit.
- The operation mode is seen in the following table

Mode	Model	Temperature setting	Airflow rate
AUTO	COOLING	25℃ (COOL,FAN)	AUTO
AUTO	HEAT PUMP	25℃ (COOL,FAN)	AUTO
AUTO	HEAT PUMP	20℃ (HEA T)	AUTO

• This switch is to be applied when the remote controller is missing.

Clean and Care

Caution —	
Disconnect the power supply before cleaning and maintenance.	
Do not splash water on the units for cleaning, as electric shocks ma	ay occur
Wipe the units with a dry soft cloth, or a cloth slightly moistened wit volatile liquid such as thinner or gasoline).	th water or cleaner (not with
Cleaning the Front Panel	
Remove the front panel. Dip a piece of cloth into the water colder than the dirty part of front panel.	45 $^\circ\text{C}$ and dry it. Then wipe
Note: Do not immerse the front panel into water so as to protect microo diagram on the front panel.	computer components and circuit
Cleaning the Air Filter (every 3 me	onths)
Note: Do not to touch the fin of indoor unit during cleaning to avoid p	ersonal injury.
1 Take down the air filter Lift up the front panel. Pull the air filter downwards to remove, as shown in Fig .(a,b).	(Fig. a)
 Clean the air filter Use a vacuum cleaner to remove dust. If the filter are dirty, wash them with warm water and a mild detergent. Air Dry the filters in the shade. 	(Fig. b)
Note: Never use water above 45 °C to clean the air filter or it can cause deformation or discoloration. it's good to change filters every 2 year. Contact your dealer or EcoAir.	
③ Reinstall the air filter Reinstall the filters along the direction of arrowhead. Close the panel.	

Clean and care
Check before use
① Be sure that nothing obstructs the air outlet and intake vents.
2 Check that wiring are properly connected.
③ Check the batteries of air conditioner remote are good
④ Check that whether the installation brackets of the outdoor unit are in good condition. If damaged, please contact the dealer.
Maintain after use
① Turn main power off.
② Clean the filter and indoor and outdoor units' bodies.
③ Clear dust and obstructions from the outdoor unit.
④ Clean and check outdoor brackets are secure and safe to use.
(5) Adopt the special shield to cover the outdoor unit, avoid the rain water, dust enter into the unit.

Troubleshooting

$ \qquad $	CAUTION
Don't attempt to repair the air conditioner by yourself, it can cause an electric shock or fire. Please check the following items before asking for repair, it can save your time and money.	
Phenomenon	Troubleshooting
Not operate immediately when the air conditioner is restarted.	 Once the air conditioner is stopped, it will not operate in approximately 3 minutes to protect itself.
There's unusual smell blowing from the outlet after operation is started.	 The unit has no peculiar smell by itself. If it has that is due to the smell accumulated in the ambient.
?	 Solution method: Cleaning the filter. If problem is still there, you need to service the air conditioner. (Please contact your dealer or EcoAir.)
Sound of water flow can be heard during the operation.	• The air conditioner is started, when it is running the compressor started or stopped running, or the unit is stopped, sometimes there is swoosh or gurgle, the sound is due to refrigerant flowing This is not a malfuncti- on.
In COOL mode, sometimes the mist emitted from the air outlet vent.	• When the indoor temperature and humidity are very high, this phenomenon would happen. This is caused by the room air is swiftly cooled down. After running for a while, indoor temperature and humidity will fall down, the mist will die away.
Creaking noise can be heard when start or stopping the unit.	 This is caused by the deformation of plastic due to the changes of temperature.

Troubleshooting

Phenomenon	Troubleshooting
The unit can not run.	• Has the power been shut down?
.7	Is power plug loosed?
	Is the circuit protection device tripped off or not?
	Is voltage higher or lower?
	(Tested by qualified air conditioning engineer)
Breaking off	Is the TIMER correctly used?
Cooling(Heating) efficiency is not good.	Is Temp. setting suitable?
	• Are i nlet and outlet vents obstructed?
	Is filter dirty?
	• Are the windows and doors closed?
	Is Fan speed set at low speed?
	Is there any heat sources in the room?
Wireless remote control is not available.	• The unit is interfered by abnormal or frequent
	functions switch over occasionally the controller cannot operate. Power down and remove power
	plug for 3 minutes, and then reinstate power
	 Is it in its receiving range? Or obstructed? replace the batteries in the remote control inside
	• Whether the wireless remote control is damaged.
	• The air humidity is on the high side.
If water leakage in the room.	 Condensing water over flowed. The comparison position of independent designed.
	 The connection position of indoor unit drainage pipe is faulty
	• Position of drainage hose badly fitted.
If water leakage in outdoor unit.	• When the unit is running in COOL mode, the pipe
	and connection of pipe would be condensed due to the water cooled down.
	 When the unit is running in Auto Defrosting mode the ice thawed and flowed out.
	 When the unit is running in HEAT mode, the water
	adhered on heat exchanger dripped off.
Noise from indoor unit emitted.	• The sound of fan or compressor relay is switching on or off.
	 When the defrosting is started or stop running, it will sound. That is due to the refrigerant flowed to the reverse direction.

Troubleshooting

Phenomenon	Troubleshooting
Indoor unit cannot deliver air.	• In HEAT mode, when the temperature of indoor heat exchanger is very low, that will stop deliver air in order to prevent cool air. (Within 2min)
	 In HEAT mode, when the outdoor temperature is low or high humidity, frost will form on the outdoor heat exchanger, that the unit will automatically defrost, indoor unit stop blowing air for 3-12min. During the defrosting, there is water flowing out or vapor be produced. In dehumidifying mode, sometimes indoor fan will stop, in order to avoid condensing water be vaporized again, restrain temperature rising.
Moisture in air outlet vent.	 If unit is running under the high humidity for a long time, the moisture will be condensed on the air outlet grill and drip off.

Immediately stop all operations and plug out, contact the dealer in following situations.

There is harsh sound during operation.

The terrible odors emitted during operation.

Water is leaking in the room.

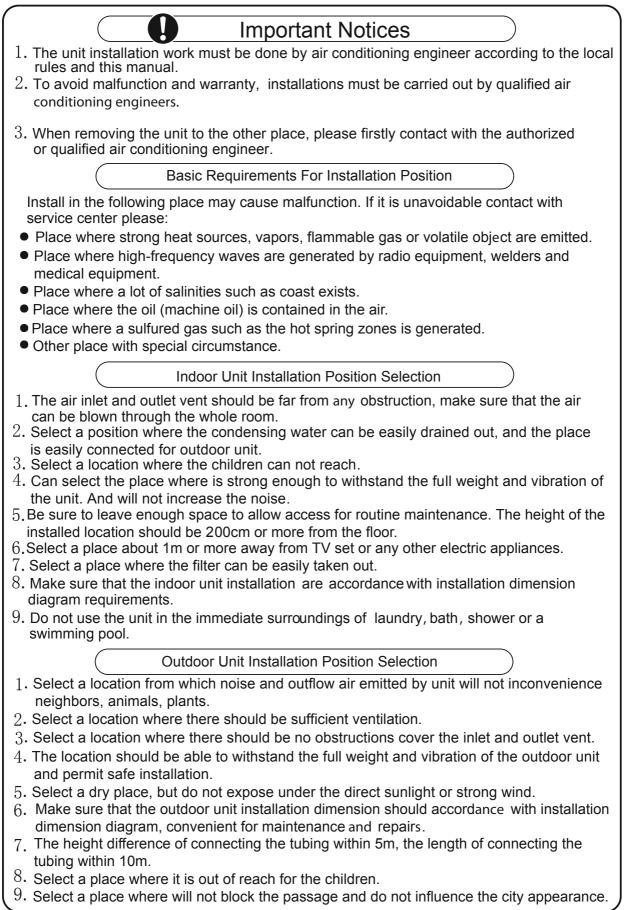
Air switch or protection switch often breaks.

Carelessy splash water or something into unit.

There is an abnormal heat in power supply cord and power plug.

Stop running and pull out of the plug.

Notices for installation



Notices for installation

Safety Requirements For Electric Appliances

- 1. The power supply should be used the rated voltage and AC exclusive circuit, the power cable diameter should be satisfied.
- 2. Don't drag the power cable emphatically.
- **3.** It should be reliably earthed, and it should be connected to the special earth device, the installation work should be operated by the qualified electricians. An electric spur and rotory isolator must be fitted in order to protect the short circuit and overloading.
- 4. The min. distance from the unit and volatile substance is 1.5m.
- 5. The appliance shall be installed in accordance with national wiring regulations.
- 6. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

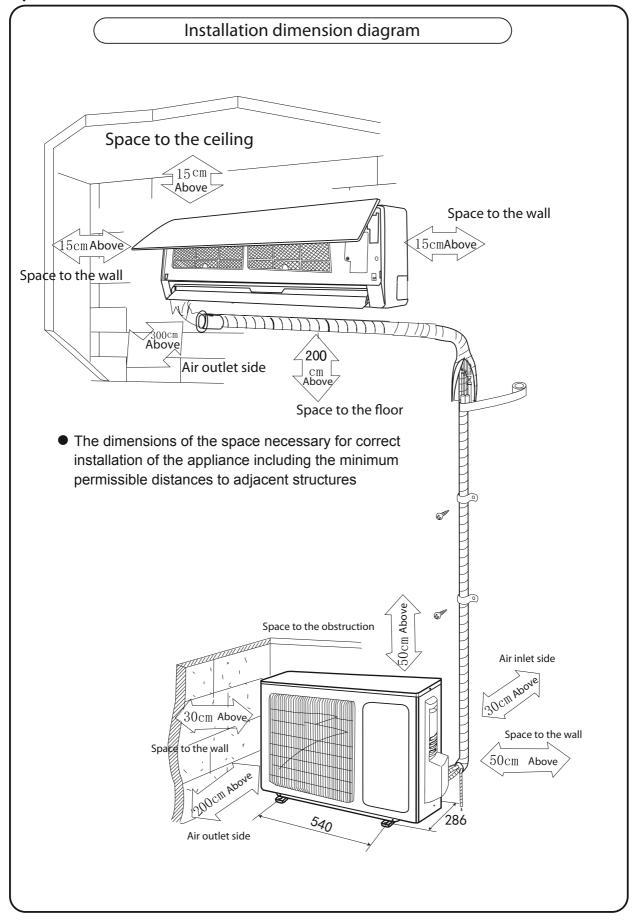
Note:

- Make sure electric wiring are carried out by qualified electricians.
- wrong connection may cause fire.

Earthing requirements

- 1. Air conditioner is type I electric appliance, thus please do conduct reliable earthing measure.
- 2. The yellow-green two-colour wire in air conditioner is earthing wire and cannot be used for other propose. It cannot be cut off and be fix it by screw, otherwise it would cause electric shock.
- 3. The earth resistance should accord to the National Criterion.
- 4. The user power must offer the reliable earthing terminal. Please don't connect the earthing wire with the following place:
 - (1) Tap water pipe. (2) Gas pipe. (3) Contamination pipe.
 - ④ Other places that qualified electrician consider them unreliable.
- 5. The model and rating values for fuses according the silk print on fuse cover or related PCB board.

Installation dimension diagram



Installation of Indoor Unit

Installation of Mounting Plate 1. Mounting plate should be installed horizontally. As the water tray's outlet for the indoor unit is two-way type, during installation, the indoor unit should slightly slant to water tray's outlet for smooth drainage of condenser water. 2. Fix the mounting plate on the wall with screws. 3.Be sure that the mounting plate has been fixed firmly enough to withstand about 60 kg. Meanwhile, the weight should be evenly shared by every screw. Above 150 f 131 Fig.5 **Drill Piping Hole** Outdoor Indoor 1.Slant the piping hole (ϕ 55/ ϕ 65) on the wall slightly downward to the outdoor side. Wall pipe Seal pad 2.Insert the piping-hole sleeve into the hole to prevent the connection piping and wiring from being damaged when passing through the hole. ø55/ø65 Installation of Drain Hose 1. Connect the drain hose to the outlet pipe of the indoor unit Bind the joint with rubber belt. outlet pipe of indoor unit outlet pipe of drain hose indoor unit rubber belt 2. Put the drain hose into insulating tube. outlet pipe of drain hose indoor unit rubber belt insulating tube rubber belt outlet pipe of 3. Wrap the insulating tube with wide rubber belt to prevent indoor unit the shift of insulating tube. Slant the drain hose downward slightly for smooth drainage of condensing water. insulating tube connected bulge distortion Note: The insulating tube should be connected reliably with the sleeve outside the outlet pipe. The drain hose should be slanted downward slightly, without distortion, bulge or fluctuation. Do not put the outlet in to drinking water supply. Flooded

Installation of Indoor Unit

Connecting Indoor and Outdoor Electric Wires

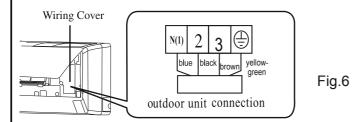
1.Open the front panel.

2.Remove the wiring cover as shown in Fig 6.

3. Make the power connection cord pass through the hole at the back of indoor unit.

4. Reinstall the cord anchorageand wiring cover.

5.Reinstall the front panel.

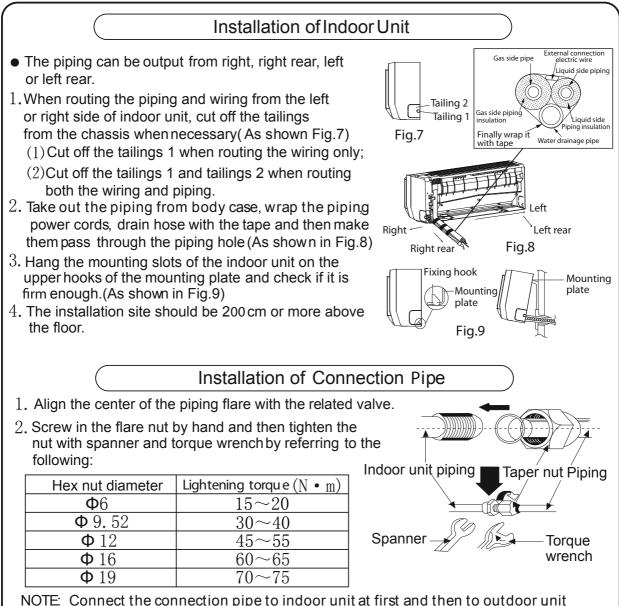


NOTE:

All wires between indoor and outdoor units must be connected by the qualified electric air conditioning engineer.

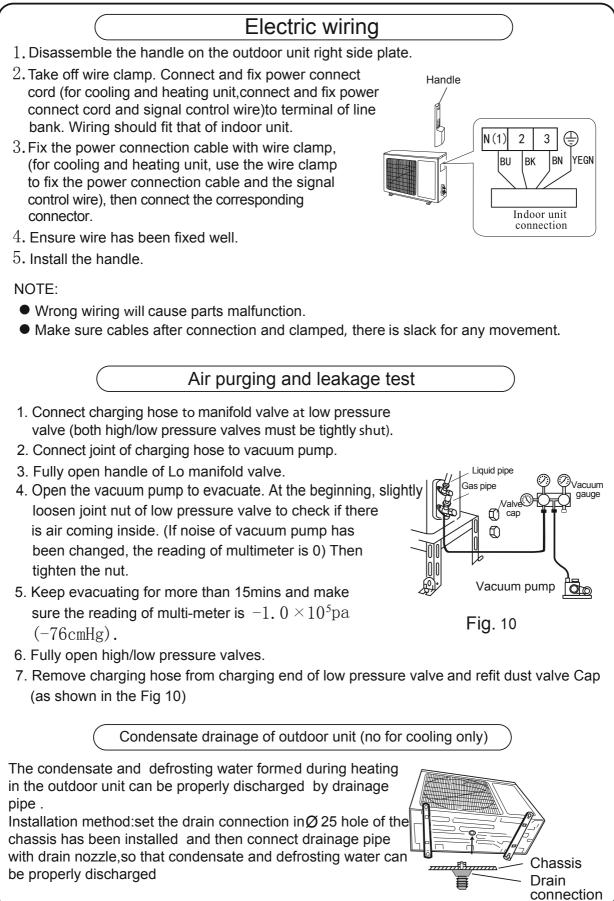
- Electric wires must be connected correctly. Improper connection may cause malfunction.
- Tighten the terminal screws tightly.
- After tightening the screws, pull the wire slightly to confirm whether it's firm or not.
- Make sure that the electric connections are earthed properly to prevent electric shock.
- Make sure that all wiring connections are secure and the cover plates are reinstalled properly. Poor installation may cause fire or electric shock and malfunctions, which is not cover by warranty

Installation of Indoor Unit



NOTE: Connect the connection pipe to indoor unit at first and then to outdoor unit Handle piping bending with care. Do not damage the connection pipe. Ensure that the joint nut is tightened firmly, otherwise it may cause leakage of refrigent gas because of poor installation is not covered under warranty.

Installation of Outdoor Unit



Check after installation and test operation

Check after installation

Items to be checked	Possible malfunction
Has it been fixed firmly?	The unit may drop, shake or emit noise.
Have you done the refrigerant leakage test?	It may cause insufficient cooling(heating) capacity
Is heat insulation sufficient?	It may cause condensation and dripping.
Is water drainage well?	It may cause condensation and dripping.
Is the voltage in accordance with the rated voltage marked on the nameplate?	It may cause electric malfunction or damage the part.
Is the electric wiring and piping connection installed correctly and securely?	It may cause electric malfunction or damage the part.
Has the unit been connected to a secure earth connection?	It may cause electrical leakage.
Is the power cord specified?	It may cause electric malfunction or damage the part.
Is the inlet and outlet been covered?	It may cause insufficient cooling(heating) capacity.
Has the length of connection pipes and refrigerant capacity been recorded?	The refrigerant capacity is not accurate.

Test Operation

1. Before test operation

- (1) Do not switch on power before installation is finished completely.
- (2) Electric wiring must be connected correctly and securely.
- (3) Cut-off values of the connection pipes should be opened.
- (4) All the impurities such as scraps and packaging must be cleared from the unit.

$2.\,{\rm Test}$ operation method

- (1) Switch on power, press "ON/OFF" button on the wireless remote control to start the operation.
- (2) Press MODE button, to select the COOL, HEAT (Cooling only unit is not available), FAN to check whether the operation is normal or not.

ONE (1) YEAR LIMITED WARRANTY Save This Warranty Information

Eco Air guarantees this product free from defects in materials and workmanship for a period of one (1) year from the date of purchase. Coverage is valid only with proof of purchase.

Faults arising from a faulty installation is specifically excluded.

This unit must be operated under conditions as recommended, within the voltage range indicated on the unit. Any attempts made to service or modify the unit, will render this WARRANTY VOID. The actual product may differ slightly from the illustration. This warranty is in addition to, and does not affect, your statutory rights.

If the unit is modified or mis-used, this could void the warranty.

For further information, please contact 0845 388 0007.

This product has been manufactured to comply with the EC Directives 2006/95/EC and 2004/108/EC.

We recommend that you note the details of your purchase below and retain your original proof of purchase / receipt with this manual. Keep these documents safe in the event of a warranty claim.

Date of purchase:	
Retailer name:	
Serial number:	



