

USER'S MANUAL

MOBILE SERIES

AMC-14Aa



CONTENT

1. SUMMARY	1
2. WORKING PRINCIPLE.....	1
3. SAFETY LABELS OF THE UNIT.....	2
4. SPECIFICATIONS	3
5. STRUCTURE.....	4
6. OPERATING METHODS	5 --10
※. USAGE NOTICE	5 --7
※. FUNCTIONS OF DISPLAYER AND PANEL	8--10
7. NAMES AND FUNCTIONS OF THE REMOTE CONTROLLER. .	11-- 18
8. ACCESSORIES AND INSTALLATION OF DRAINAGE HOSE ..	19--21
9. ACCESSORIES OF DRAINAGE WATER	22
10. CARE AND MAINTENANCE	23 --24
11. TROUBLESHOOTING.....	25
12. USER NOTICES	26 -- 27
13. AFTER SALES SERVICE.....	27

SUMMARY

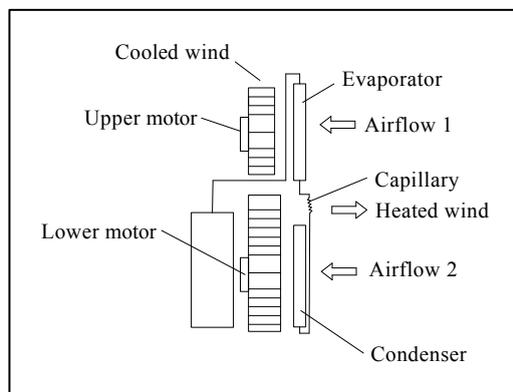
This MOBILE AIR CONDITIONER is a small, movable air conditioner. It possessed the functions of COOL, HEAT, DRY and the Separate Ventilation, and depends on different places, it can be moved as will. It is fit for home and office use, especially fit for the house with many rooms. With the compact configuration, excellent workmanship, elegant appearance, it looks like a standing Benz car. It is convenient for moving, energy saving, and with low noise.

Note: Please read this manual carefully before operating the unit, the manual is used for reference, and the technical parameters are subject to change without notice.

WORKING PRINCIPLE

With the help of upper motor, the airflow of indoor pass through the evaporator becomes the cooled wind, but with the help of lower motor, the airflow of indoor pass through the condenser becomes the heated wind. There is two duct systems designed in its structure. The heated wind is discharged by the rear outlet, the cooled wind is discharged by the front outlet, flow-guided by the louver, and it brings the gentle cooling airflow, and the low temperature environment is maintained.

The Working Principle



SAFETY LABELS OF THE UNIT

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol warns you to the potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER" or "WARNING." These words mean:

 **DANGER**

You can be killed or seriously injured if you don't immediately follow instructions.

 **WARNING**

You can be killed or seriously injured if you don't follow instructions .

All safety messages will tell you what the potential hazard is, how to reduce the chance of injury, and what will happen if the instructions are not followed.

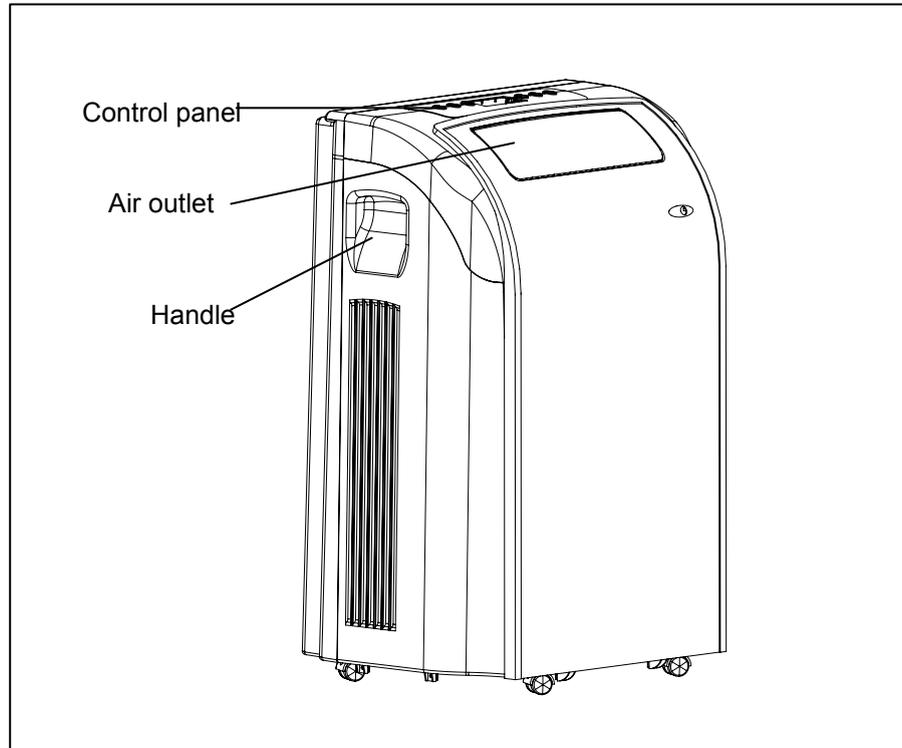
SPECIFICATIONS

Model	AMC-14Aa
Cooling capacity (Btu/h)	14000
Heating capacity (W)	--
Rated voltage	220~240V
Rated frequency	50Hz
Cooling rated current (A)	7.4
Max. cooling/heating input current (A)	10.6/--
Cooling rated power (W)	1700
Heating rated power (W)	--
Max. input power (W)	2450
Airflow (m ³ /h)	570
Refrigerant and charge amount	R410A 800g
Noise (sound press)(coolair outlet)dB(A)	59
Weight (N.W.)	47
Dimension (H×W×D) (mm)	840×546×405
Package dimension (H×W×D) (mm)	870×761×460

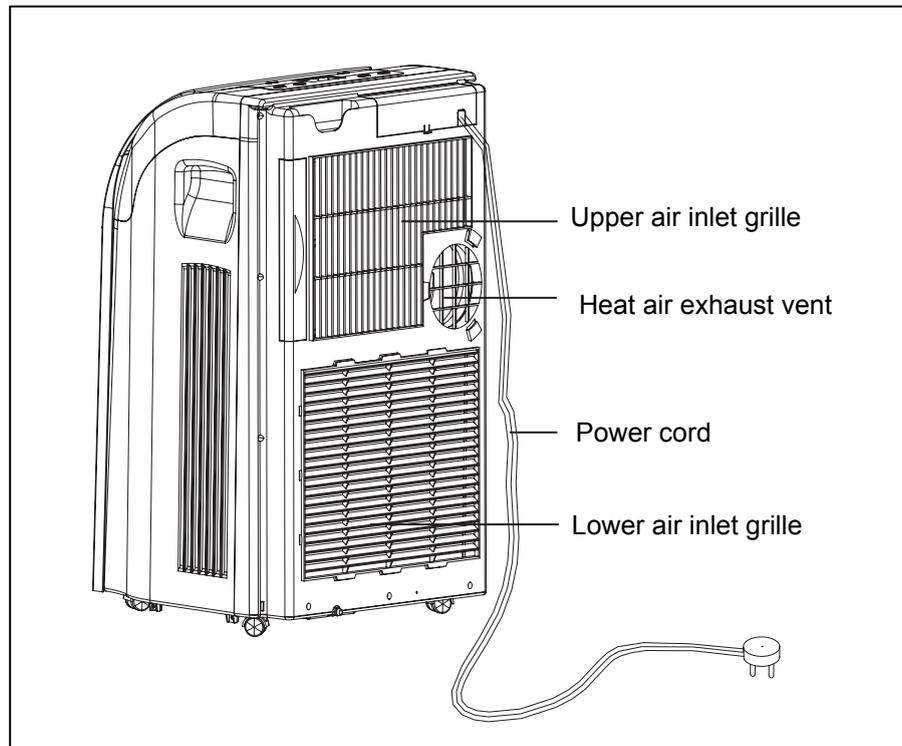
- Note: 1. The cooling capacity was tested in the condition of the indoor dry bulb temp.27 , wet bulb temp.19 (the temp of indoor and outdoor are same) with exhaust pipe min length.
 2. Heating capacity is tected when indoor temp. dry bulb 20°C and wet bulb 12°C.
 3. Max. input power is tested under cooling mode when indoor temp. dry bulb 35°C and wet bulb 24°C.
 4. Noise is tested 1m in front of front air outlet vent under cool air state, it is sound press grade.
 5. Please refer performance parameter on nameplate as standard. The design are subject to be changed without notice.
 6. Device is not intended for continuous running

STRUCTURE

Front



Rear



OPERATING METHODS

※. Usage notice

The working range of COOL mode and DRY mode: 16°C–30°C.

Unpack the Air Conditioner

WARNING

Excessive Weight Hazard

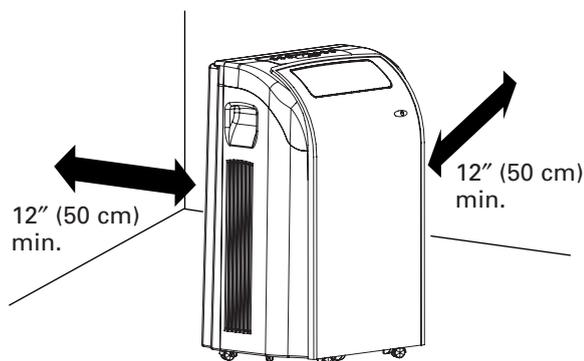
- Use two or more people to move and install the air conditioner.
- Failure to do so can result in back or other injury.

Remove packaging materials

- Remove and properly dispose the packaging materials. Remove tape and glue residue from surfaces before turning on the air conditioner. Rub a small amount of liquid dish soap over the adhesive with your fingers. Wipe with warm water and dry it.
- Do not use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue. These products can damage the surface of your air conditioner.

Place requirements:

- Place the air conditioner on a smooth level floor that strong enough to support the unit.
- Allow at least 12 inches (50 cm) of air space on all sides of the unit for good air ventilation.



- Place the unit in an area where the temperature will not fall below 18°C. The coils will be covered with frost at temperatures below 18°C, and this may reduce performance.

NOTE: The portable air conditioner has wheels for easy movement, but it should only be rolled on smooth and flat surfaces. Do not attempt to roll the portable air conditioner on carpet or over objects.

OPERATING METHODS

※. Usage notice

Electrical Requirements

WARNING

Electrical Shock Hazard

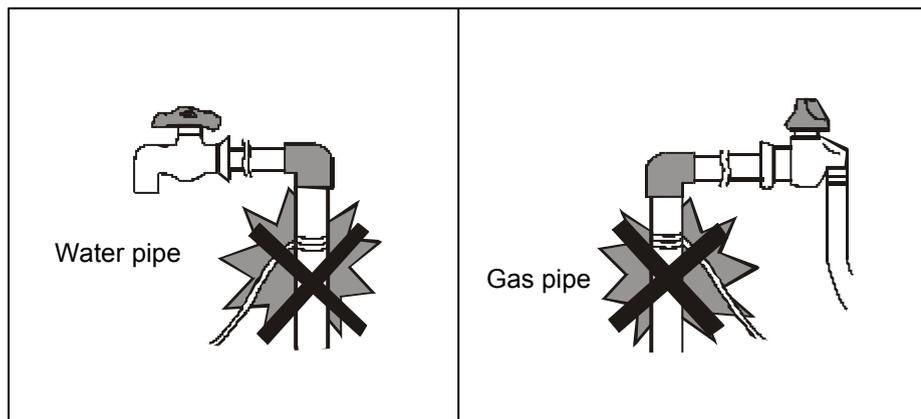
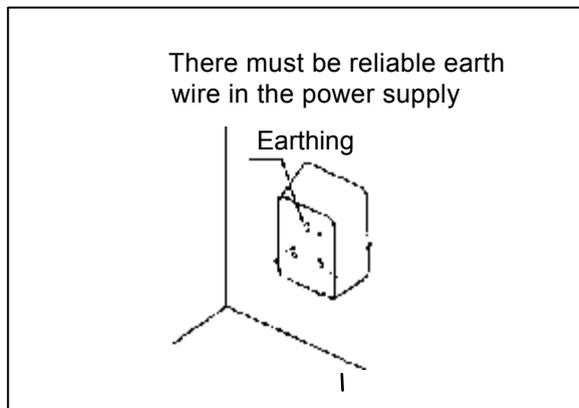
- Plug into a grounded 3-prong outlet.
- Do not remove ground prong.
- Failure to follow these instructions can result in death, fire, or electrical shock.
- Do not use an extension cord.
- Do not use an adapter.

- Power must adopt the rated voltage and special circuit for AC. And diameter of power cord should be big enough.
- The portable air conditioner should be connected to a 230V 50Hz, 15 fused 3 prong grounded outlet.
- Time-delay fuse or time-delay circuit breaker is recommended to be used.
- All wiring must comply with local and national electrical codes and should be installed by a qualified electrician.
If you have any questions, contact a qualified electrician.

OPERATION METHOD

※. Usage Notice

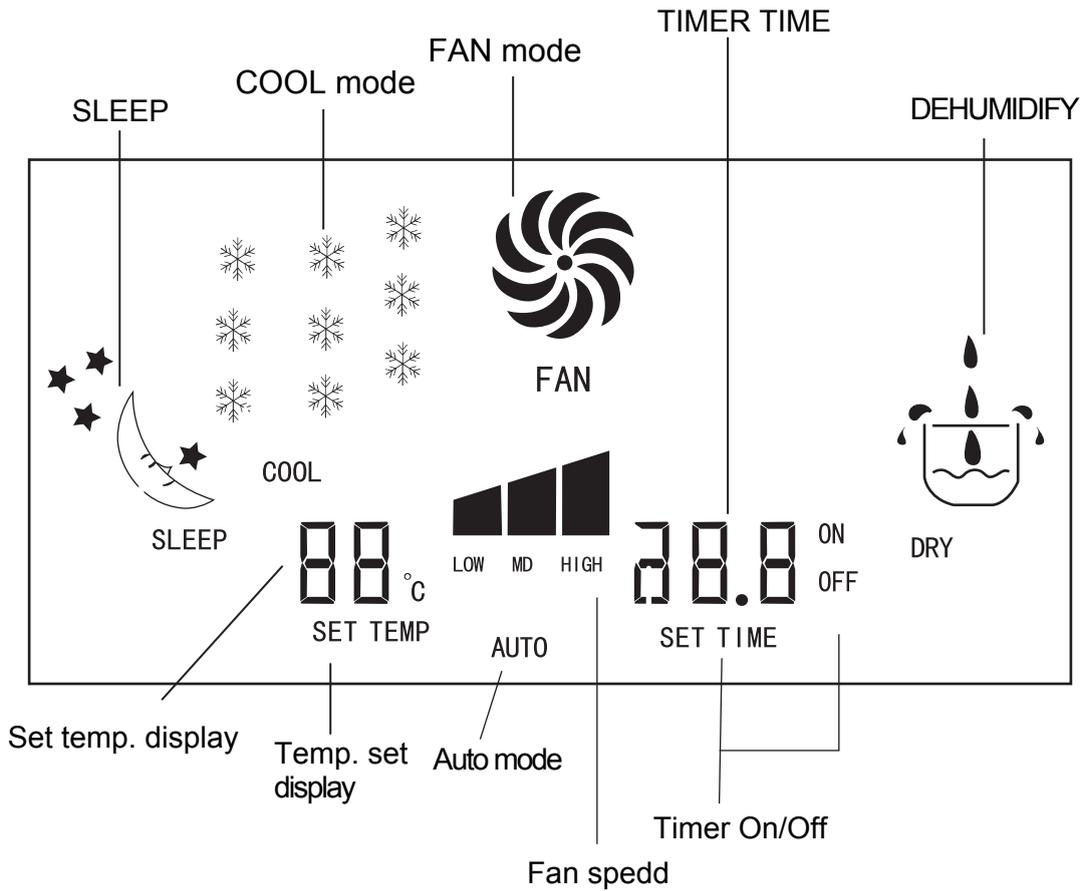
- The wiring must be operated by the professional personnel by following the national regulation. There must be electric leakage protect switch and magnetic and heat drop-off air switch that with enough capacity in fixed circuit. Don't connect earth wire to water pipe or gas pipe. When the air conditioner is not used, please pull out the power plug or cut off power supply.



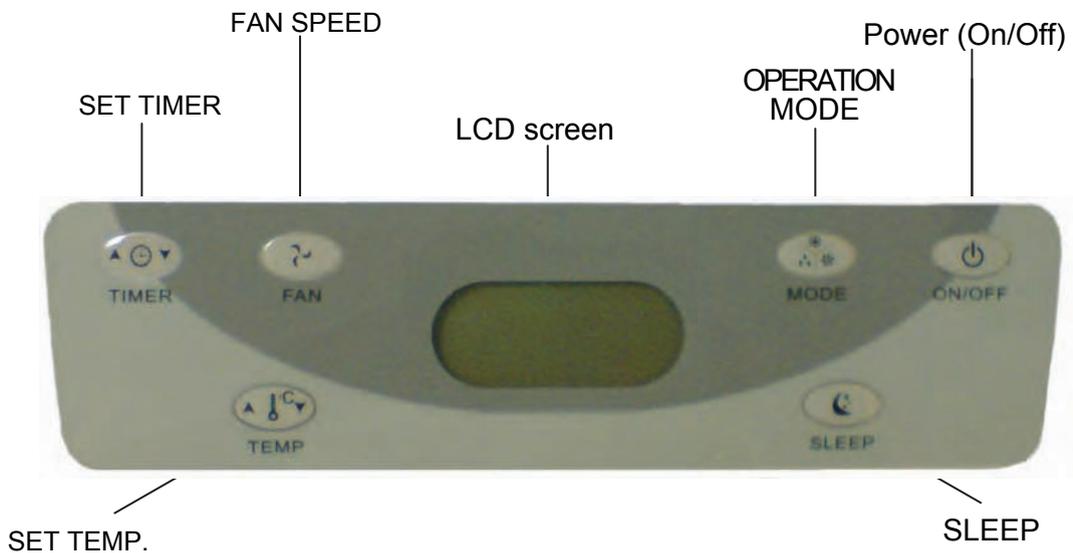
OPERATION METHOD

FUNCTIONS OF DISPLAYER AND PANEL

LCD instruction (dynamic display)



Functions for control panel and every button



OPERATION METHOD

※. Functions of displayer and panel



This unit contains memory function. When power outage occur during operation, the unit stops running. After electrified, the unit would still operates with the operation mode before power outage.

Functions of buttons on control panel:

1. ON/OFF

Turn on or off the unit (press once to turn on, and repress to turn off).

2. MODE

It can make modes(functions) of this unit change in cycle for user to select proper function. Function changes on this mode is: Auto→Cool→Dry→Fan

3. Fan speed selection button--FAN

When unit is running in FAN, COOL, or HEAT, there are 3 speeds for options. Press FAN serially can change fan speed in order of: LOW→MID→HIGH.

4. Temperature setting button--TEMP

When turning on the unit, under cooling or heating mode, set temp. value would be displayed on control panel. Press + and - to increase or decrease set temp. value.

5. TIMER

Press + and - to set timer time to enable the unit turn on and off in set time. Timer off time can be set when unit is running, and timer on time can be set when unit is off (but not power outage). Timer can be set in range of 0.5-24 hours, and press + and - to adjust.

6. SLEEP

When unit is running, press this button once to begin SLEEP, repress to quit from SLEEP state. There is no SLEEP state under AUTO mode.

OPERATION METHOD

※. Functions of displayer and panel

- COOLING**
- 1). Press MODE to select COOL mode.
 - 2). Press TEMP to set proper indoor temperature in range of 16°C-30°C.
 - 3). Press FAN to set proper fan speed, HI / MD / LO.



When cooling, for improve cooling effect, please note:

- ① When there is sunshine from window, please draw curtain to shield.
- ② Try not to use other heat source in the room.

- DEHUMIDIFYING**
- Close windows and doors can get a better dehumidify effect:
Press MODE and select DRY, then unit runs in dehumidify mode. At this time, upper fan motor runs in low speed and is unadjustable.



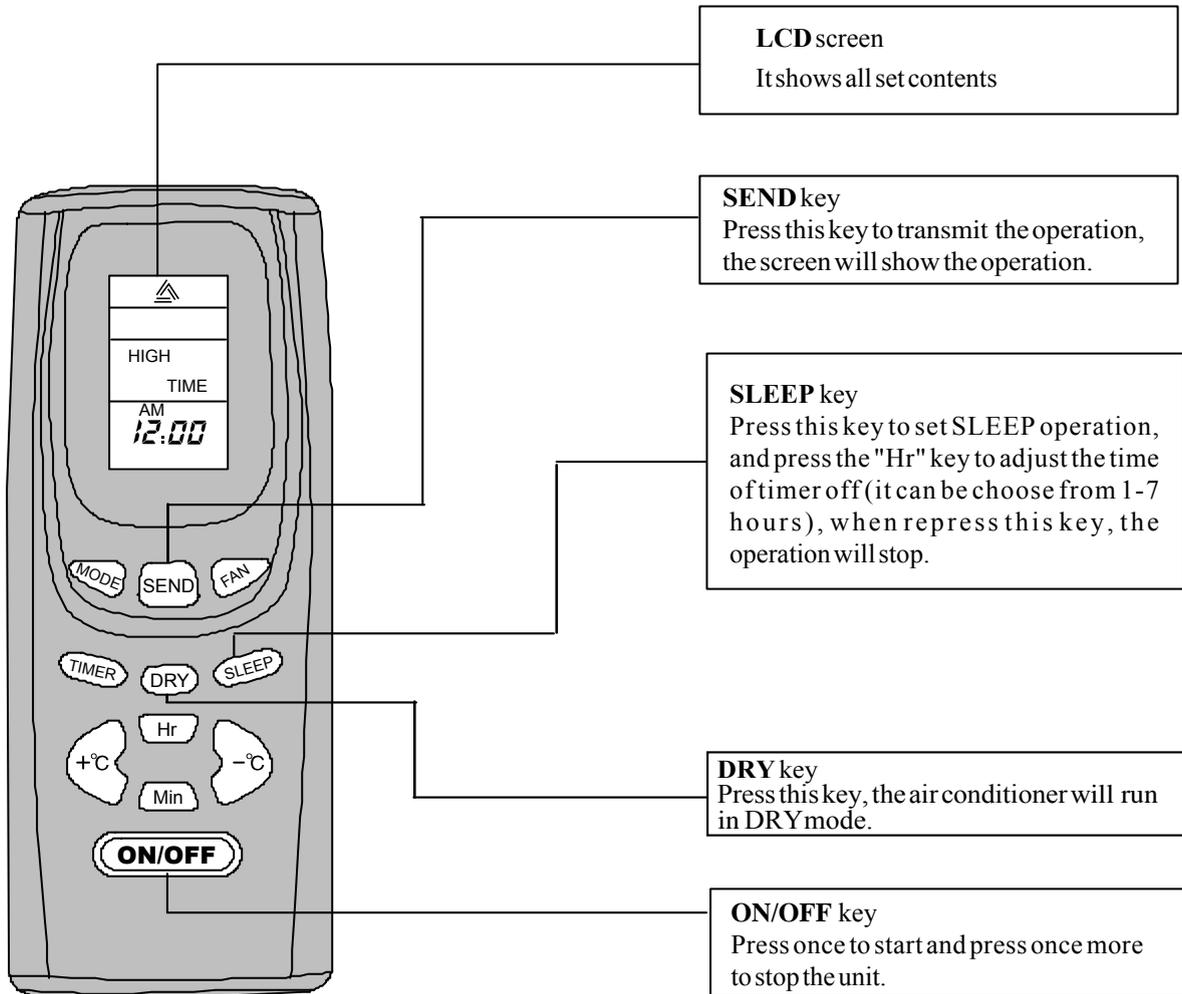
When the unit is used as dehumidifier, heat exhaust pipe is unnecessary.

- FAN**
- 1). Press MODE to select FAN mode.
 - 2). Press FAN to select fan speed at HI, MD and LOW.

- AUTO**
- Press MODE to select AUTO, then mode microcomputer would select FAN, COOL, HEAT and DEHUMIDIFY automatically according to indoor ambient to offer a temperature constanting effect in the room.

- HEATING**
- Press MODE to select HEAT. At this time, compressor and lower fan stop running with only electric heater works. Upper fan runs in set speed.

NAMES AND FUNCTIONS OF THE REMOTE CONTROLLER



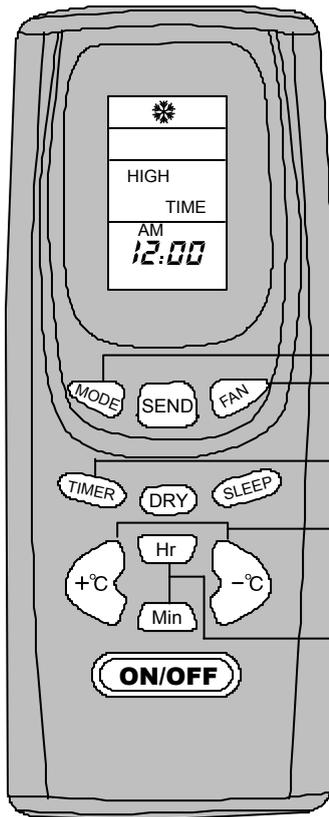
□ Make sure to aim the signal port of remote controller at the signal receiver indicator of front panel.

● Only the **AUTO**, **ON/OFF**, **SLEEP**, **SEND** keys could be used to send the current display operation, the other keys could be used to change the mode.

● The other functions please refer to the cooling only type air conditioner

NOTE: When using Fahrenheit remote controller the sign '°C', '+°C' or '-°C' will be corresponding changed to '°F', '+°F' or '-°F'.

NAMES AND FUNCTIONS OF THE REMOTE CONTROLLER



MODE key

Press the "MODE" key step by step, the LCD will display the COOL-FAN-HEAT-AUTO mode, circularly.

TEMP key

Press \blacktriangledown once, the SET TEMP. will decrease 1 . Press \blacktriangle once, the SET TEMP. will increase 1 . The SET TEMP. can be selected from 16 -30 (61°F~86°F).

FAN key

The switchover of FAN mode are HIGH-MD-LOW.

TIMER key

Press the key to select the SET TIMER mode or the TIME mode. When select the "SET TIMER" mode, the LCD will display the time of the SET TIMER mode, while select the "TIME" mode, the LCD will display the current time.

Hr/Min key

When the unit is running in the "TIME" mode, press "Hr" once, the number will increase 1, press "Min" once, the number will increase 1. When the unit is running in the "SET TIMER" mode, press the key once between 0-7, the number of time will increase 0.5, press the key once above 8, the number of time will increase 1. When the unit is running in "SLEEP" mode, press the "Hr" key once, the time interval will increase 1 hour, and will circulate from 1 to 7 hour(s).

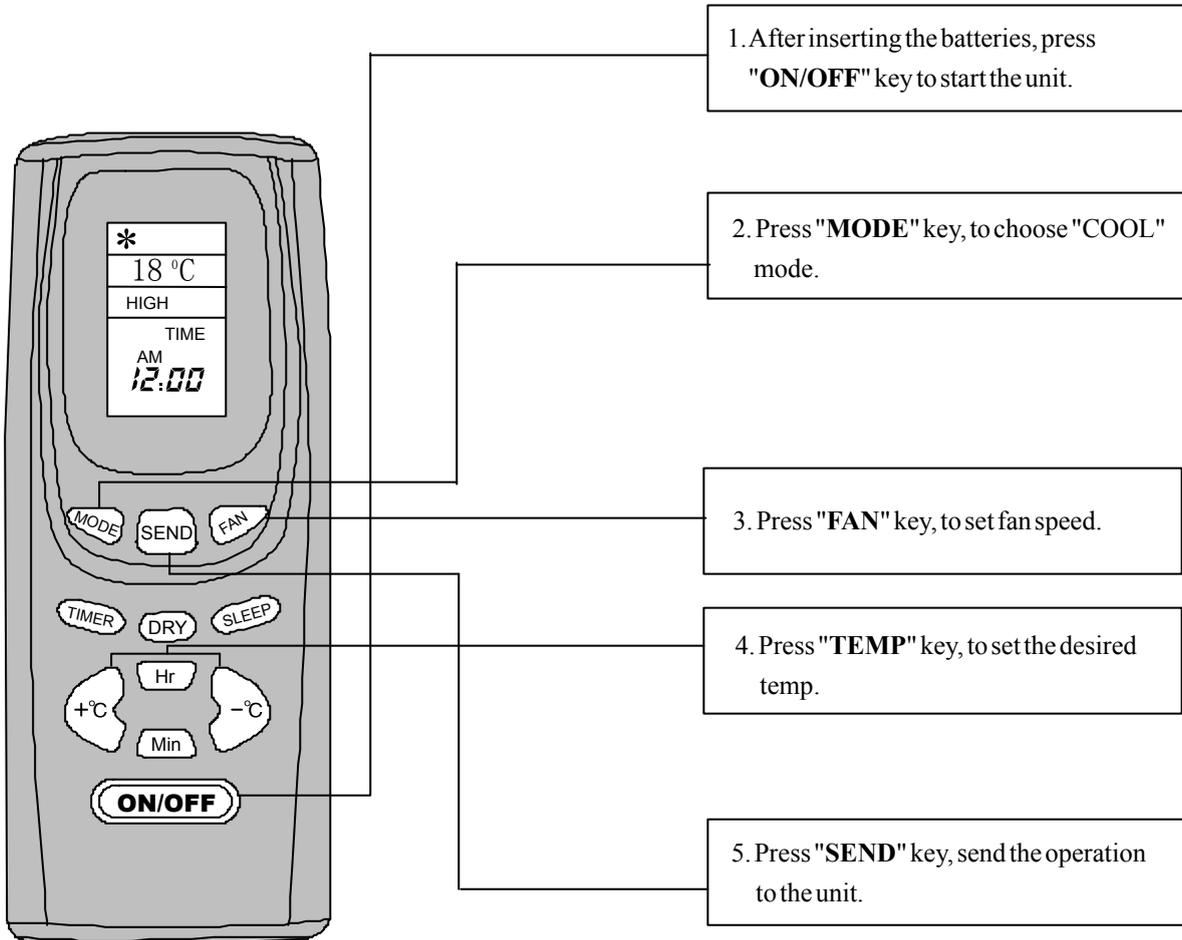
POWER OFF

In case of the power off during the operation, all options will be ceased.

If need to resume the operation, please repress the "SEND" key. If there is malfunction in the operation procedure, or wrong operation due to the thunder, please pull out the power plug, and reinsert it, then press the "SEND" key.

NOTE: When using Fahrenheit remote controller the sign '°C', '+°C' or '-°C' will be corresponding changed to '°F', '+°F' or '-°F'.

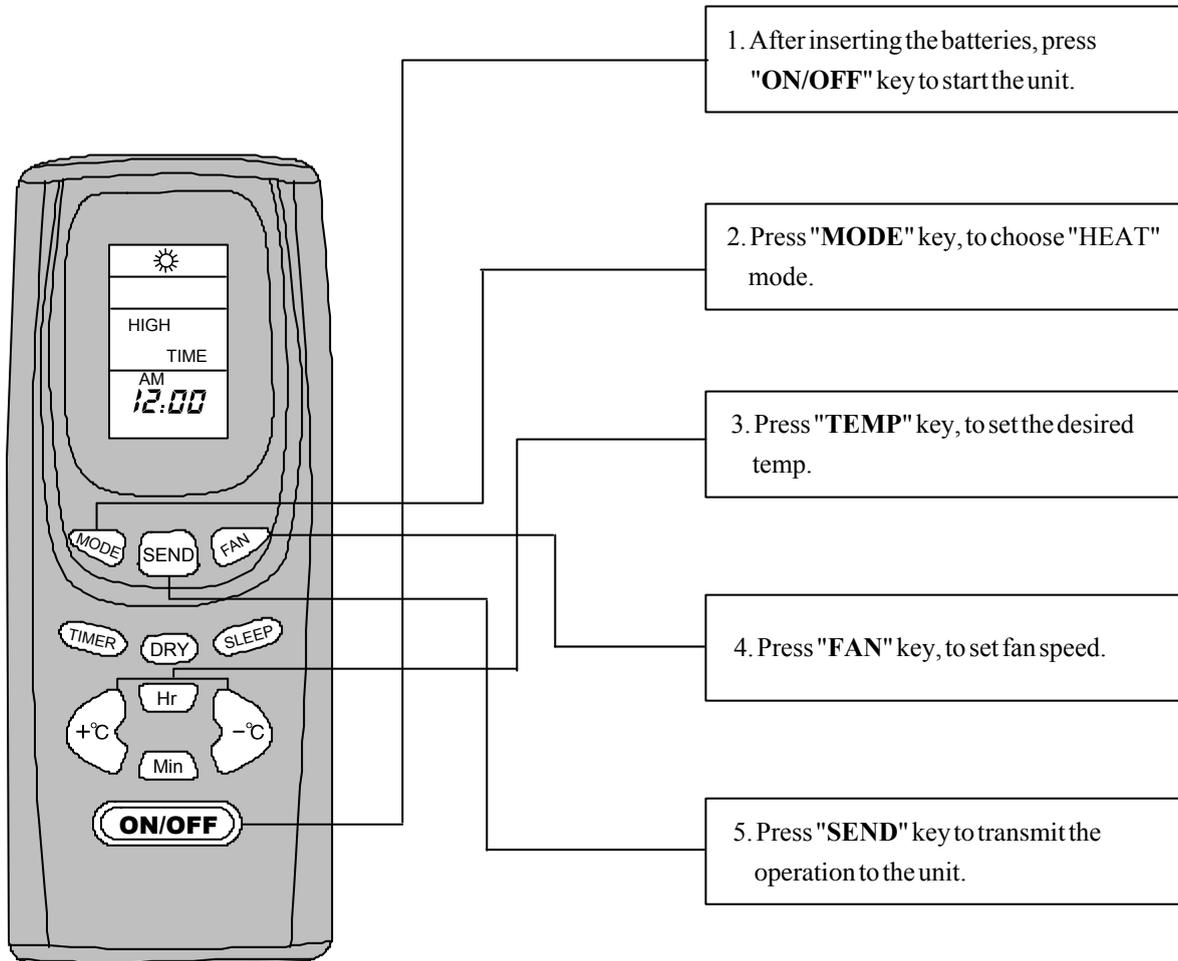
COOL MODE OPERATION



COOL	<p>When temperature of room sensor is higher than the set temp, compressor runs, the unit starts cooling operation.</p> <p>When temperature of room sensor is lower than the set temp, compressor stops, the unit runs in "FAN" mode.</p> <p>The set temp should be in range of 16 ~30 . (61°F~86°F).</p>
------	---

NOTE: When using Fahrenheit remote controller the sign '°C', '+°C' or '-°C' will be corresponding changed to '°F', '+°F' or '-°F'.

HEAT MODE OPERATION (only for cooling/heating type units)



HEAT

The compressor and lower motor stop running, only PTC is running, the upper motor is running at the set fan speed.

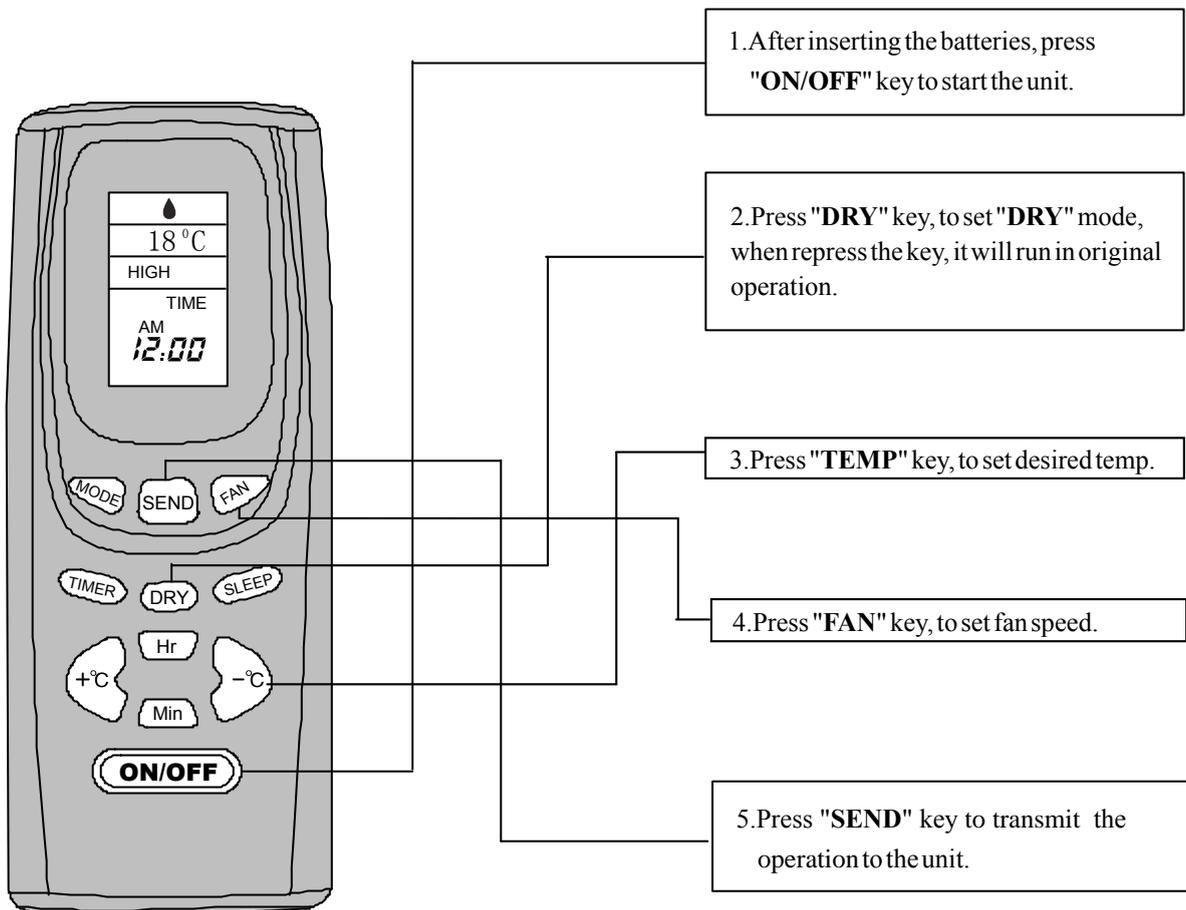
NOTE: When using Fahrenheit remote controller the sign '°C', '+°C' or '-°C' will be corresponding changed to '°F', '+°F' or '-°F'.

When the air conditioner was disturbed, the remote controller can't work once in a while, only to pull out the power plug, after reinserting it, it can be operated.

Check if the voltage of the batteries is full or not, otherwise to replace the worn batteries.

When the LCD of the remote controller couldn't display all set contents clearly, or the set options couldn't be received, please replace the batteries.

DRY MODE OPERATION

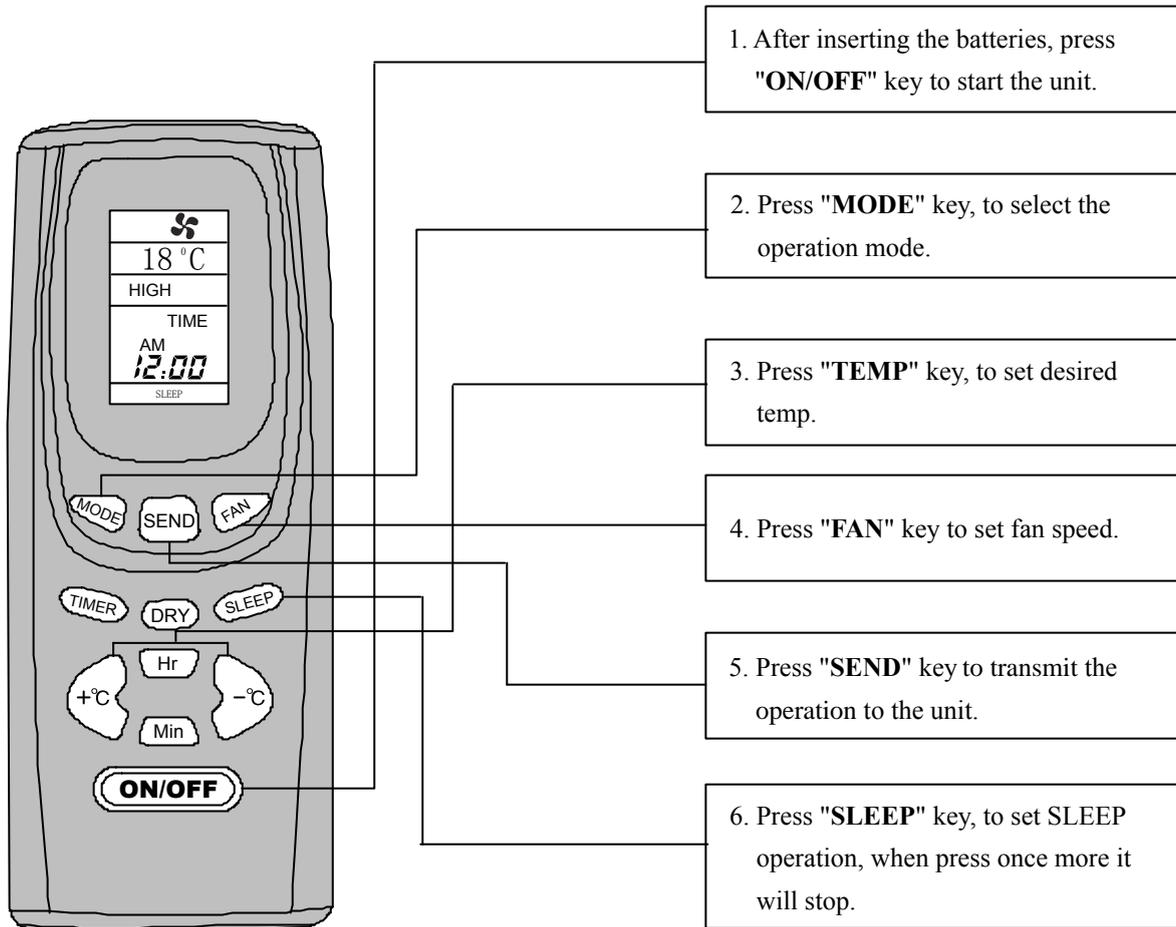


DRY

When the unit is in DRY mode, the compressor is protected, the fan motor runs at low fan speed.

NOTE: When using Fahrenheit remote controller the sign '°C', '+°C' or '-°C' will be corresponding changed to '°F', '+°F' or '-°F'.

SLEEP MODE OPERATION

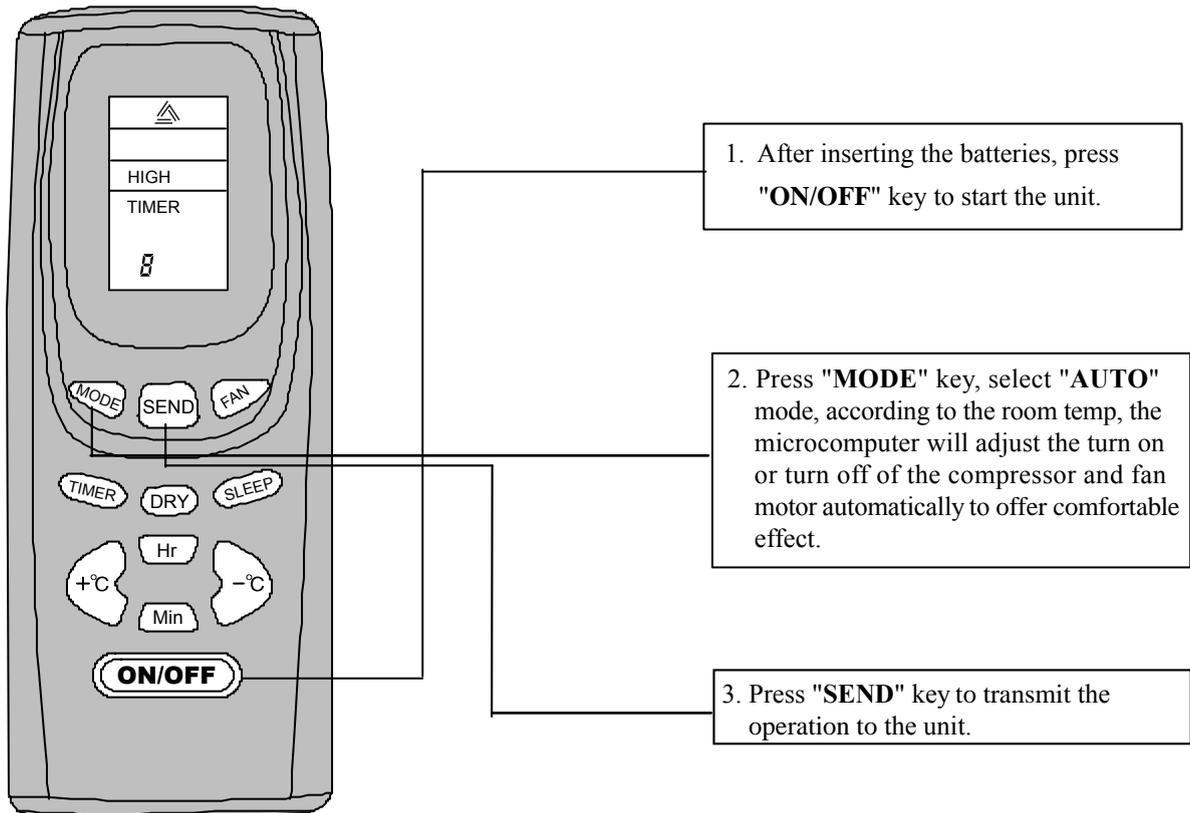


When the unit is running in SLEEP mode, press "Hr" key to set timer on, the interval is 1-7 hours.

When the unit is running in SLEEP mode, according to the time changes, it could adjust the original set temp automatically to save energy and make a comfortable sleeping.

NOTE: When using Fahrenheit remote controller the sign '°C', '+°C' or '-°C' will be corresponding changed to '°F', '+°F' or '-°F'.

AUTO MODE OPERATION

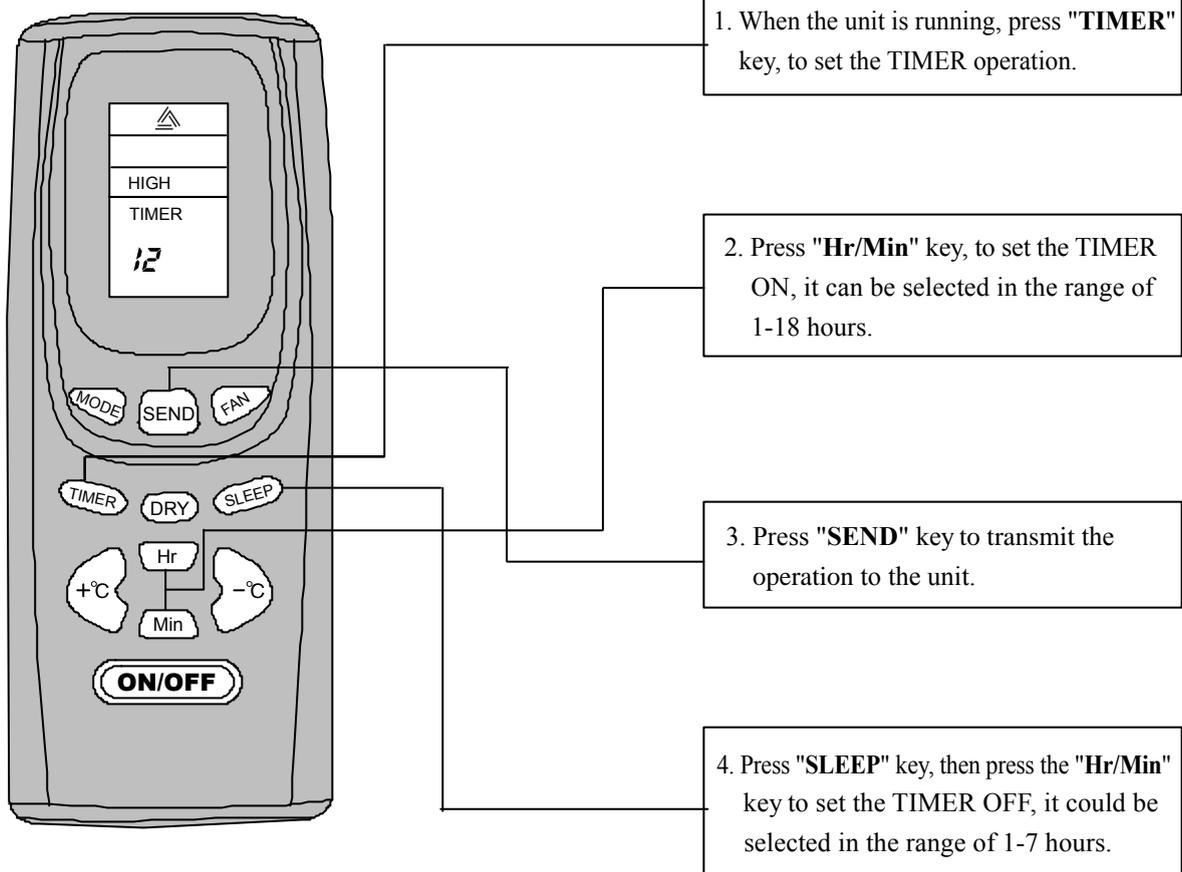


AUTO MODE

According to the room temp, the microcomputer will adjust the turn on or turn off of the compressor automatically to offer comfortable effect.

NOTE: When using Fahrenheit remote controller the sign '°C', '+°C' or '-°C' will be corresponding changed to '°F', '+°F' or '-°F'.

TIMER MODE OPERATION



After the SET **TIMER ON**, the unit turns off at once, when the set time arrived, the unit will run in original mode.

Press "**TIMER**" key, to select "**TIME**", the screen will display the current time, press "**Hr/Min**" key to adjust the number of current hour or minute.

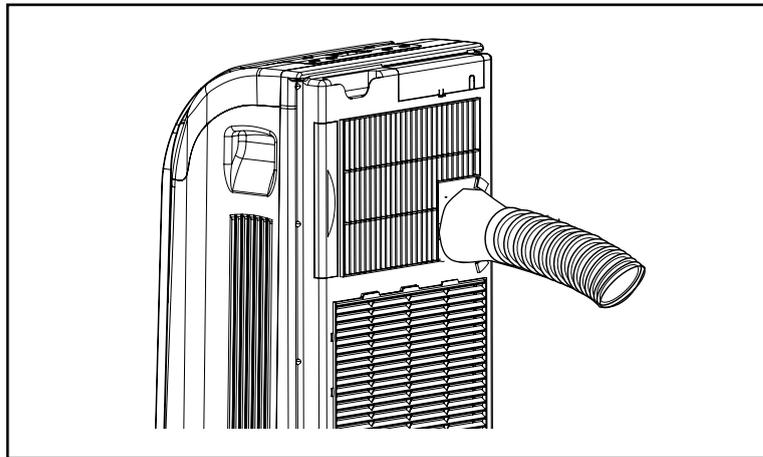
When pressing the "**SLEEP**" key to set the "**SLEEP**" mode, the "**SET TIMER**" mode will be canceled, when selecting the "**SET TIMER**" mode, the "**SET SLEEP**" mode will be canceled.

NOTE: When using Fahrenheit remote controller the sign '°C', '+°C' or '-°C' will be corresponding changed to '°F', '+°F' or '-°F'.

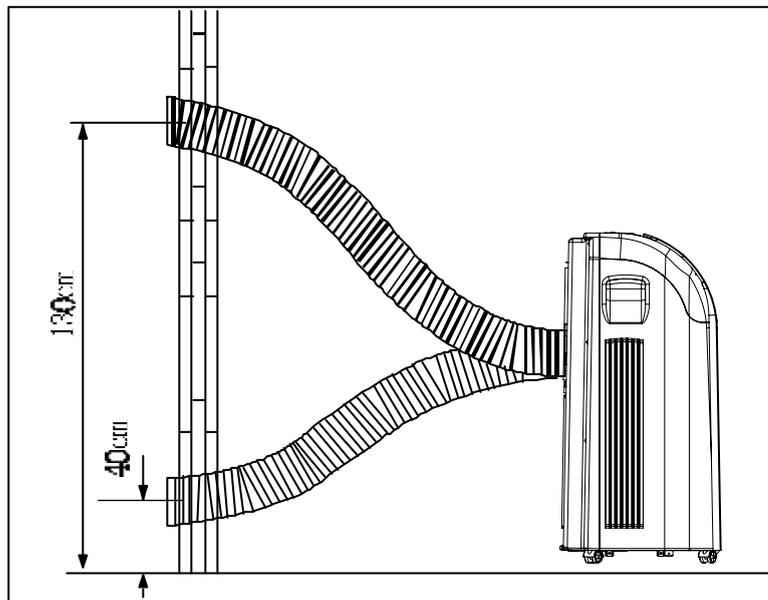
ACCESSORIES AND INSTALLATION OF HEAT EXHAUST HOSE



- Length range of exhaust pipe should be 500mm-2000mm. It is recommended to use it with shortest length.
- When installing, exhaust pipe should be as flat as possible. Don't prolong the pipe or connect it with other exhaust pipe, or it would cause abnormal operation.



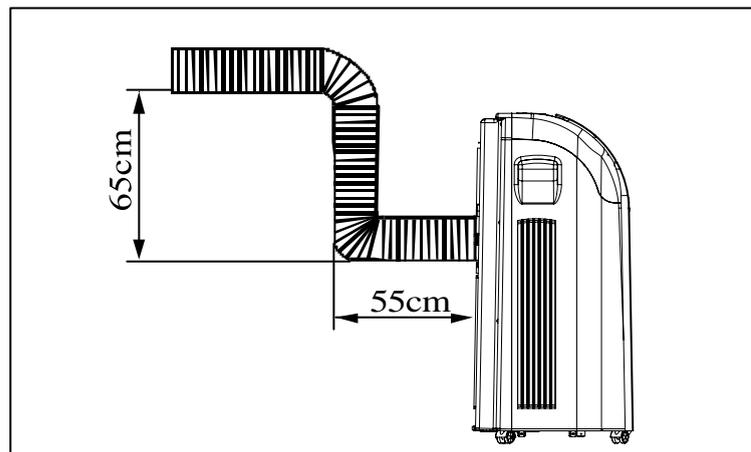
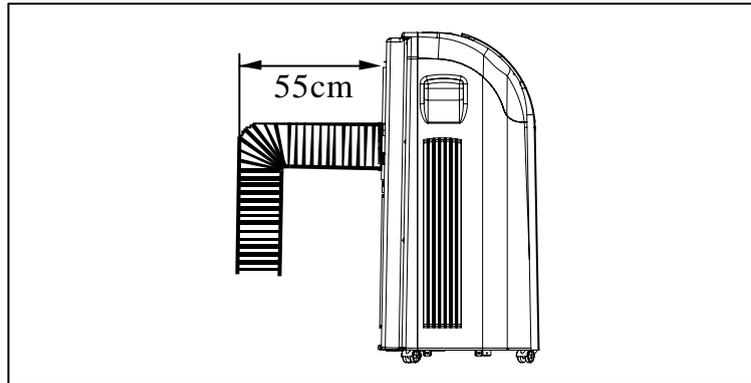
Correct installation is as shown in figure (When installing it on wall, height of wall should be about 40cm-130cm from floor).



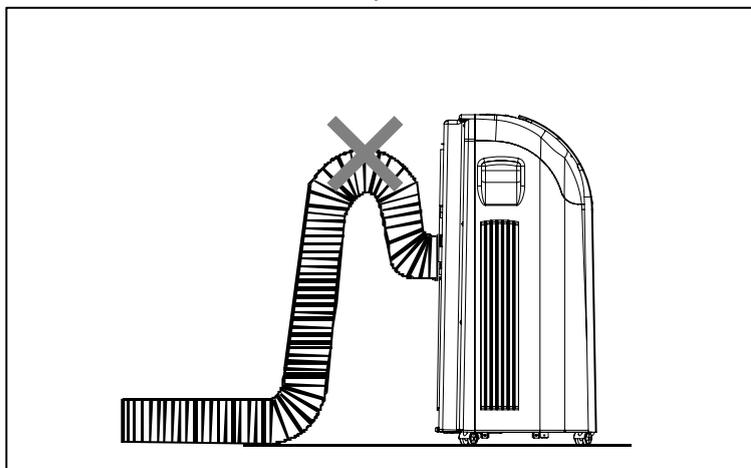
ACCESSORIES AND INSTALLATION OF HEAT EXHAUST HOSE



If the pipe are to be bent, please install it by considering following dimension.

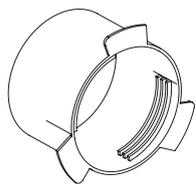


Wrong installation is shown in following figure (If the pipe is bent too much, it would easily cause malfunction.)



ACCESSORIES AND INSTALLATION OF HEAT EXHAUST HOSE

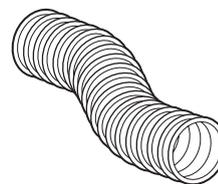
PARTS INCLUDED



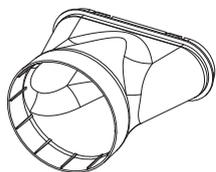
Front plastic pipe end



Rear plastic pipe end



Flexible Exhaust Hose



Window Exhaust Adapter

ACCESSORIES OF DRAINAGE WATER

Accessories of drainage hose include:



Drainage hose



Fixing clip



Pipe clip



Drainage cap



Bolt

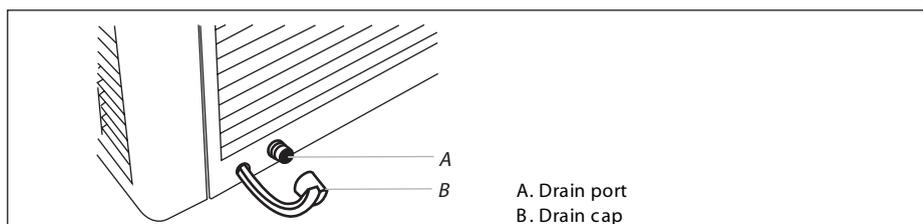
ACCESSORIES OF DRAINAGE WATER

Installation method

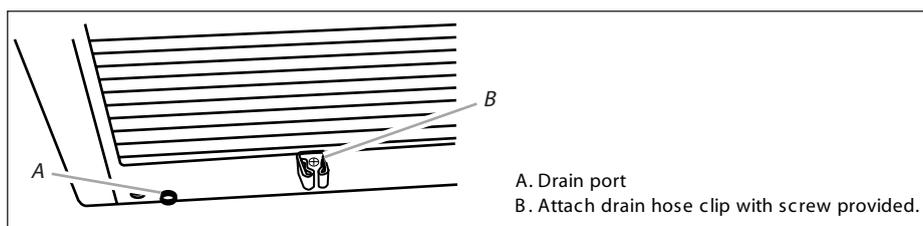
Note:

- Do install drainage hose before turning on the unit to prevent water from making floor and carpet dirty.
- The L drainage cap taken from drainage point should be stored well for future use.

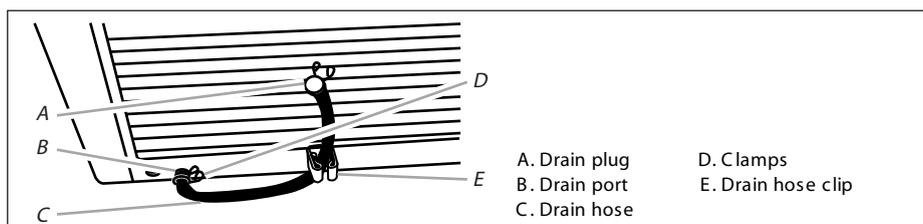
1. Take out L drainage cap from drainage point at chassis.



2. Install drainage cap on drainage hose, and it should be inserted tightly without losing.
3. Fix fixing clip for drainage hose at rear plate by bolts.



4. Insert one end of drainage hose to drainage point to the end and assembly pipe clip to prevent water leakage.
5. Fix drainage hose at fixing clip.



Drainage method:

When using COOL and DRY, condensate would be gathered in flume. When flume filled, buzzer would sound for 8 times and LCD displays error code H8.

The whole unit would stop working till water filled removed and resume running after compressor had stopped for 3 min. Take out the cap on drainage hose, take out the hose from fixing clip and drain out water in the flume. After drainage, put the cap on hose to prevent water leakage, and fix drainage hose on fixing clip.

Important:

Drain the water only if the unit shuts down with display error code "H8" (Full water tank) or drain the water only if the unit is going to be turned off for long period of time. If you drain the water constantly, during normal operation, the unit could be damaged.

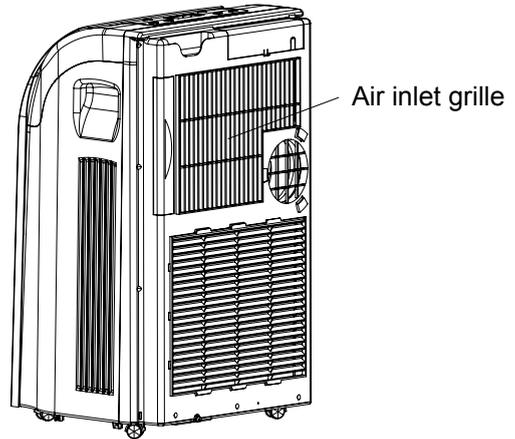
CARE AND MAINTENANCE

Mobile unit

There are wheels at the bottom of the unit, according to the demand, it can be moved in the room very conveniently.

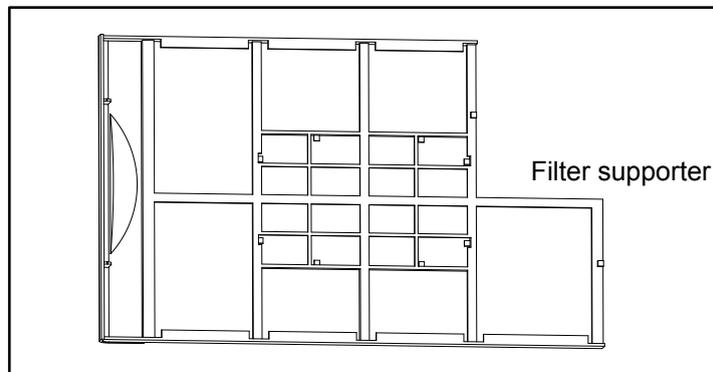


Before maintenance, please pull out the power plug and cut off power supply to avoid electric shock.



Clean the air filter

Performance of the unit will decrease if there are too much dust gathered, thus clean it at least once two weeks.



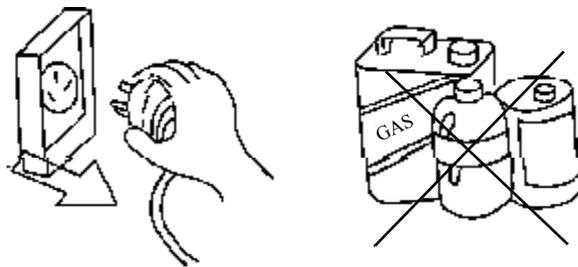
Disassembly Clean

- Draw out filter supporter and take out filter
- Wash the filter solely, spray (like the spray in bath) and shake it, or immerse it into the gentle soap water, then dry it in shade.

CARE AND MAINTENANCE

Clean the air conditioner

Please use a cloth that slightly moistened with water whose temperature is below 40°C (or the soap water or the water with cleanser) after wiping the dirt. Do not use gasoline, diesel oil or the congeneric substance to clean the unit. Before cleaning, please pull out the power plug.



TROUBLESHOOTING

If malfunction occur, please check the following before maintenance:

Troubles	Possible Causes	Solutions
The air conditioner doesn't start.	The power supply is not connected well. The power plug is not inserted tightly. There is the malfunction of power plug or socket. The fuse is broken.	1. Insert the power plug tightly. 2. Replace the power plug or socket. 3. Ask for the maintenance man to replace the fuse.
The LCD displays the number of time, but it doesn't work.	Is the TIMER ON in operation?	Cancel the "SET TIMER" operation or to wait the auto running.
Although it was set to COOL mode, there is no cool wind.	1. The room temp. is lower than the set temp. 2. The evaporator frosts.	1. This is the normal phenomenon. 2. Unit is running in defrosting operation, it will resume running in original operation after defrosting.
Although it was set the DRY mode, there is no cool wind.	1. The evaporator frosts.	1. Unit is running in defrosting operation, it will resume running in original operation after defrosting.
The LCD displays "E5".	1. Low voltage over current protection.	Cut off power supply, after 10 minutes, turn on the unit, if "E5" still be displays, please inform the maintenance man to maintain.
The LCD displays "H8".	The water tank gets full.	1. Drain out water through drainage hose. 2. If the malfunction still exists, please inform the maintenance man to maintain.

USER NOTICES

Location

Do not install the unit in the hermetic place, and keep well ventilation, to avoid malfunction occurs.

Do not install the unit at where it will be exposed to direct sunlight, in order to avoid fading and efficiency reducing.

Do not install the unit in the moist place, it can cause electrical leakage.

Please do not install the unit to the following places:

The places with gas, fire, oil or where it will cause malfunction.

Others

Please pay attention to the people of following:

- 1). Young children, patient.
- 2). The people who are hard to express themselves.
- 3). The people who is very tired, drunk or the one who had taken soporifics.

Do not step on or put anything on the top of the unit, it will slop and can cause malfunction.

Do not apply the cold wind to the body for a long time, it can cause health problems.

The unit should be placed about 1m or more away from TV, or it will be effected by the electromagnetic wave.

The air inlet/outlet can't be blocked by obstruction, or it will cause malfunction.

Do not insert hands or stick into the air inlet or outlet, especially pay more attention to young children, or it can cause the accident easily.

AMC-14Aa can be connected only to a supply with system impedance no more than 0.36ohm. In case necessary,

please consult your supply authority for system impedance information.

If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

The appliance must be positioned so that the plug is accessible.

Static press in pipeline ranged from -25Pa to 0Pa.

Rated parameter for FUSE: AC 250V, 3.15A; AC 250V, 1A

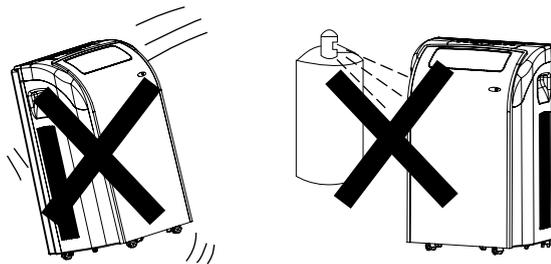
The min. distance between flammable surface should be 150mm.
Specific parameter for PTC is 240V/1200W, and its installation position is inside component of upper twyer.

When water level switch works for water filled, water inside the tank is 1.12L.

- Do not incline or overturn. If the abnormal phenomenon occurred, please pull out the power plug at once, and inform dealer to check and maintain.
- Do not use the insecticide or other sprays, it can cause deformation or crack.
- Check the User Manual for the sentences below and the marking label for the "garbage bin".
- Meaning of crossed-out wheeled dustbin: Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
- Contact you local government for information regarding the collection systems available.
- If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
- When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least free of charge.
- It is prohibited to dispose of this appliance in domestic household waste.

For disposal there are several possibilities:

- a) The municipality has established collection systems, where electronic waste can be disposed of at least free of charge to the user.
 - b) When buying a new product, the retailer will take back the old product at least free of charge.
 - c) The manufacturer will take back the old appliance for disposal at least free of charge to the user.
 - d) As old products contain valuable resources, they can be sold to scrap metal dealers.
- Wild disposal of waste in forests and landscapes endangers your health when hazardous substances leak into the ground-water and find their way into the food chain.



DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

AFTER SALES SERVICE

- If any quality problems or any other problems exist, please contact with the local dealer.

