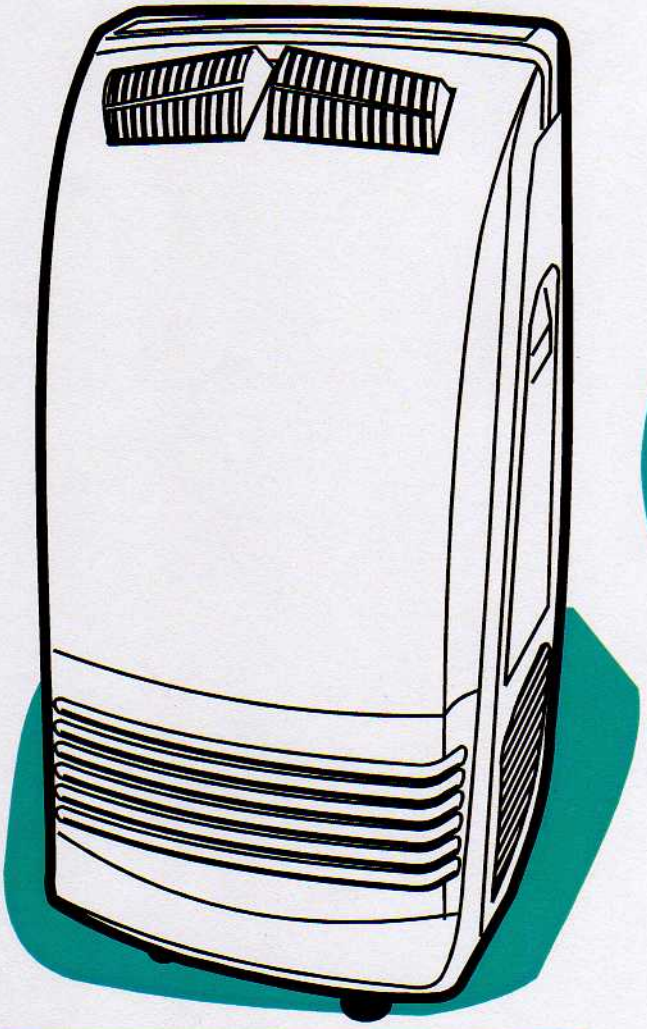
OWNER'S MANUAL

MOBILE AIR CONDITIONER



KY-32/K101
KYD-32/K101

KY-32U/11156

GP12-12L
GP12-22R

Please read this owner's manual carefully before operating the unit

INTRODUCTION

MOBILE AIR CONDITIONER

This Mobile Air Conditioner is a small size appliance, which can adjust the temperature and humidity in a room. Its flexibility characteristics make it easy to use on different occasions in different rooms. It also has multiple functions, including cooling, heating, dehumidifying and fan ventilation. This unit is designed especially for family house, office, etc. It has a compact design compared to others with the same cooling capacity. Power consumption and noise are especially low.

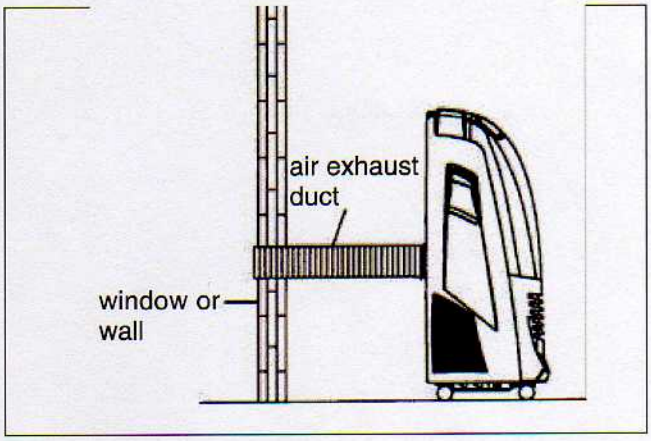
ATTENTION ⚠

Before you use your MOBILE AIR CONDITIONER, please read this instruction manual carefully.

This instruction manual is for refrence only and does not constitute a contract. We reserve the right to make technical changes without prior notice.

WORKING PRINCIPLE

The gas has a heat exchange with air in a room and changes into liquid, then passes to a capillary tube to lower temperature and pressure and enters into the evaporator. With heat exchange, refrigerant absorbs heat to lower temperature. The evaporator is lower than the dew point temperature of air in the room, water vapour will condense on the outside surface of the evaporator and drop down into the drain tank. This cycle takes the relative humidity in the room down and attains the goal of dehumidification.



If this unit is ONLY used as a dehumidifier, always remember to remove the air exhaust duct from the main unit. When used as a air conditioner, mount the air exhaust duct to the air outlet (terminal) of the main unit.

WORKING PRINCIPLE

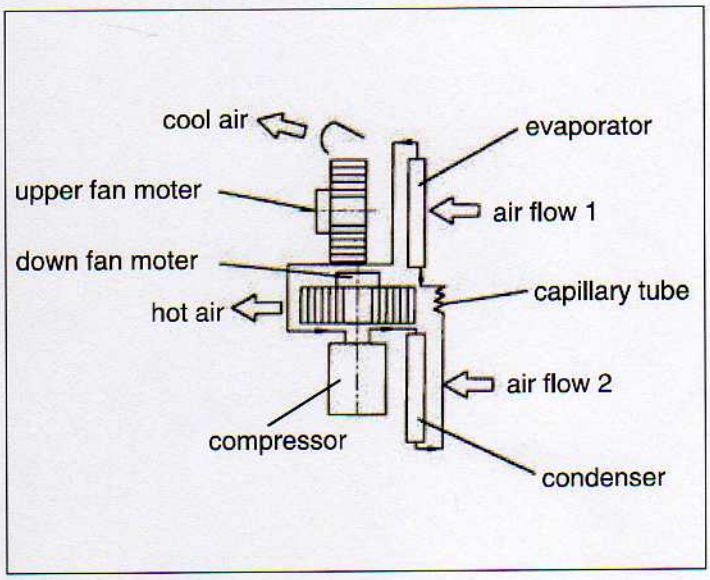
COOLING CIRCULATION

Air flow 1

As shown in figure below, air is drawn past the evaporator, which cools the air blows through the outlet.

Air flow 2

Air is also drawn past the condenser which warms the air. These two air flow systems separate the hot and cool air. Hot air is exhausted from the outlet at the back and cool air is exhausted from the front of the unit.



DEHUMIDIFYING CIRCULATION

When the AC power is switched on the compressor and fan will operate, refrigerant with low temperature and low pressure in the system enters into the compressor, pressurized to high temperature and hight pressure, gas then flows to the condenser.

Cooling/heating

Model		KYD-32/K101	GP12-22R
Cooling capacity		3200W	12000BTU/H
Heating capacity(W)		2000	2000
Dehumidifying Capacity(L/day)		53	53
Power (W)	Cooling	1200	1300
	Heating	2050	2050
	Dehumidifying	820	820
PTC parameter	Votage	~220-230V	~220V
	Power	2000	2000
Flow volume m^3/h		330	380
Power source		~ 220-230V 50Hz	~ 220V 60Hz
Sound Pressure level dB(A)		52	52
Net weight (kg)		45	45
Dimension	Body (cm)	85.6 × 45.0 × 37.0	85.6 × 45.0 × 37.0
	Package (cm)	113.4 × 54.3 × 48.7	113.4 × 54.3 × 48.7
Refrigerant		407C	R22
Water tank Volumn (L)		3	3

Cooling only type

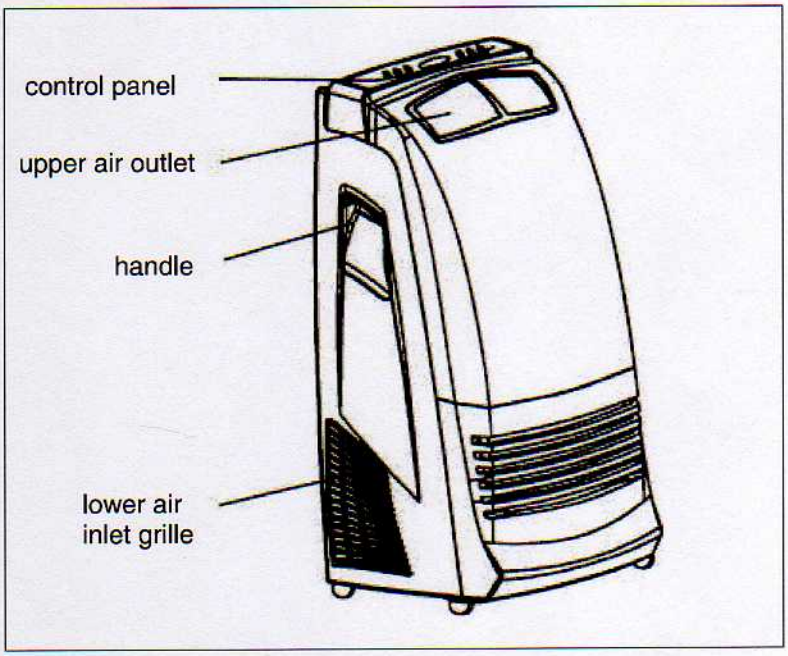
Model		KY-32/K101	KY-32U/11156	GP12-12L
Cooling capacity		3200W	11000 BTU/H	12000 BTU/H
Dehumidifying Capacity(L/day)		53	53	53
Power (W)	Cooling	1200	1200	1300
	Dehumidifying	820	820	820
Flow volume(m^3/h)		380	380	380
Power source		~220-230V 50Hz	~115V 60Hz	~220V 60Hz
Sound Pressure level		52	52	52
Net weight (kg)		45	45	45
Demension	Body (cm)	85.6 × 45.0 × 37.0	85.6 × 45.0 × 37.0	85.6 × 45.0 × 37.0
	Package (cm)	113.4 × 54.3 × 48.7	113.4 × 54.3 × 48.7	113.4 × 54.3 × 48.7
Refrigerant		407C	R22	R22
Wates tank volumn (L)		3	3	3

NOTE:

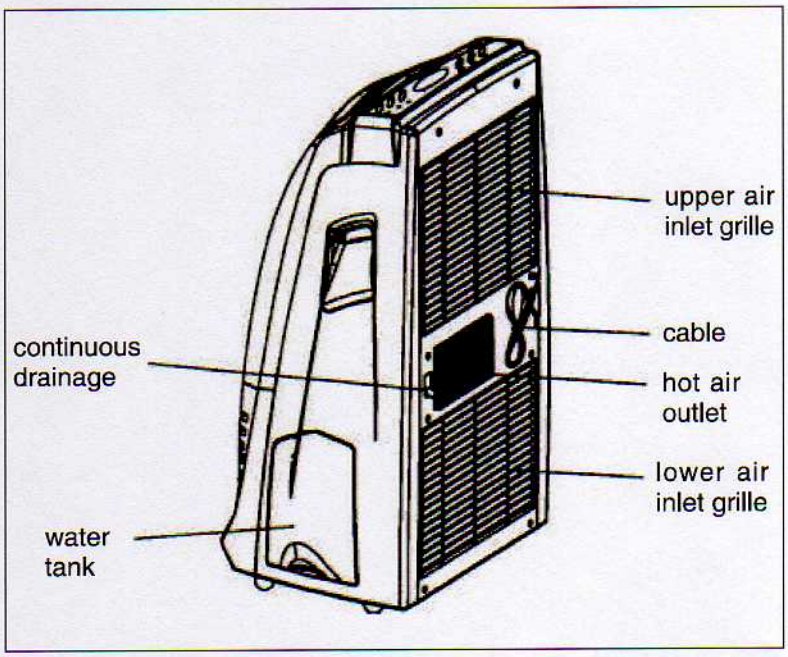
1. The above cooling capacity is measured at ambient temperature DB 30℃, WB 25.5℃(Indoor and outdoor side, the same).
2. The above heating capacity is measured at ambient temperature DB 20℃, WB 12℃(Indoor and outdoor, the same).
3. Noise level is measured at the point where 1.0 meter away from the front of the machine, in cooling mode.
4. Fan power consumption is measured when fan rans at the highest speed.
5. Specification listed above is for reference only. Please see actual data printed on the nameplate.

STRUCTURES

FRONT



BACK



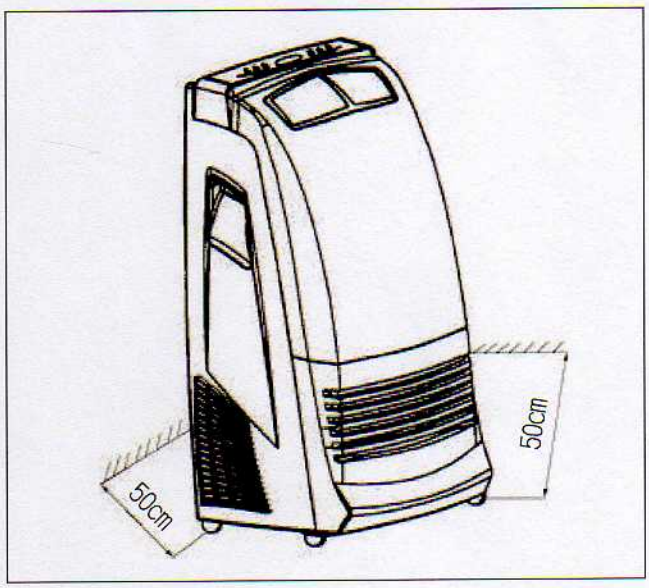
OPERATION

DEHUMIDIFYING AND COOLING OPERATION

The operating ranges for cooling and dehumidifying operation is 16℃-35℃.

LOCATION

Put the mobile air conditioner at an open place where the air outlets cannot be covered up, place the unit no less than 50cm away from a wall or other obstacle.



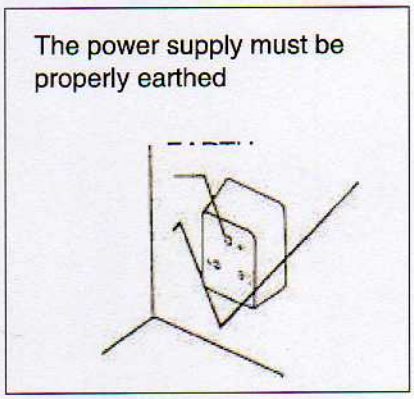
POWER SUPPLY

Before connecting the air conditioner to the power supply, please check:

1. The power supply is rated voltage ± 6%.
2. The power supply line is PROPERLY EARTHED and sized for a pickup current of 20A, so as to avoid voltage drops when starting the air conditioner.
3. The unit connected to a 16Amp scoket by a 16Amp plug fitted.
4. Cross-section area of the wires must be at least 2.5mm^2.
5. If the power supply cord of the unit is broken, please replace it with a H05VV-F, 3G1.5mm^2 (Heating only), a H05VV-F, 3G1.0mm^2 (Cooling only) power supply cord and a skilled service man is needed to do this.

OPERATION

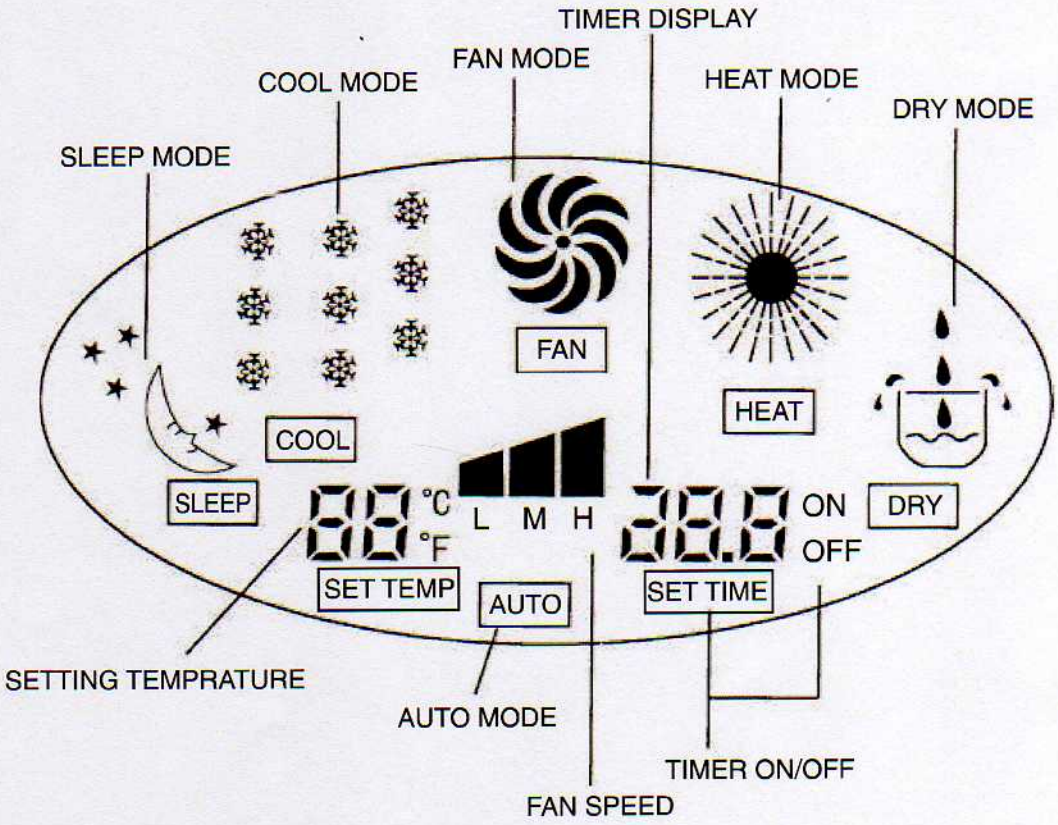
6. Please go to the maintenance department for changing the power cord and plug if they are damaged.



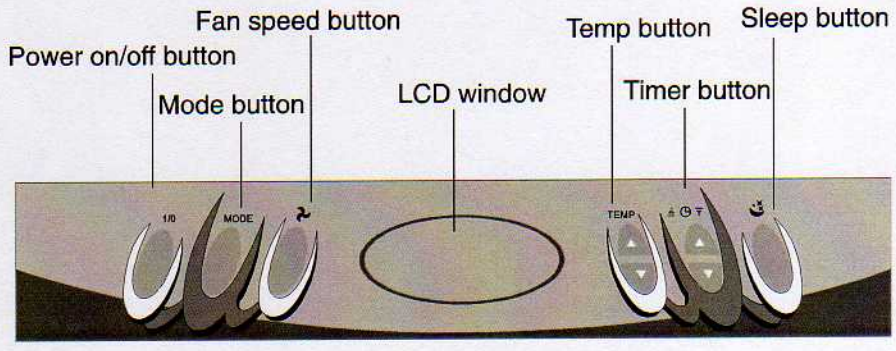
For to prevent flicker impressions during the start of the compressor (technical process) following installation conditions do aplly.

1. The power connection for the air conditioner has to be done at the main power distribution. This distribution has to be of an low impedance. Normally the required impedance is reached at a 32A fusing point.
2. No other equipment has to be connected to this power line.
3. For detailed installation acceptance please refer to your contract with the power supplier, if restrictions do apply for products like washing machines, air conditioners or electrical ovens.
4. For power details of the air conditioner refer to the rating plate of the product.

LCD DISPLAY WINDOW



CONTROL PANEL



SELECTING AIR CONDITIONER FUNCTIONS

1. TURN THE AIR CONDITIONER ON

   Press the power on/off button "1/0", this will turn the appliance on.

2. MODE BUTTON "MODE":

   The running mode selection, five modes to choose:FAN ⇨ COOLING ⇨ DEHUMIDIFYING ⇨ HEATING ⇨ AUTO.

3. FAN SPEED BUTTON ' ':

   There are three speeds when the unit working in FAN mode or three speeds in COOLING and HEATING mode. Push the ' button to change the fan speed, it will change in the sequence "HIGH ⇨ MIDDLE ⇨ LOW "(In FAN mode) or "HIGH ⇨ MIDDLE ⇨ LOW "(In COOLING mode or HEATING mode).

4. TEMPERATURE SETTING BUTTON" TEMP "

   As soon as the air conditioner has been switched on, in the cooling or heating mode, the display on the control panel will show the temperature set (this will usually be different from the actual room temperature). Use keys " ▲ & " ▼" to increase or decrease. To prevent unnecessary strain on the internal components it is good practice to set the temperature before selecting the operational mode.

5. USE THE " ◷ " BUTTON TO PROGRAMMING THE AIR CONDITIONER:

   Use this two button" ▲" & "▼ " to programming the air conditioner on or off. When the unit is running, setting time to stop the machine; and when it is off (But with power on), setting time to start the machine. The maxim set-time is 24 hours. Use keys "▲" " ▼ " to increase or decrease.

6. SLEEP BUTTON

   When the unit is running, press " ' button to enter sleeping mode, and press once more to quit the mode. This key does not function under AUTO mode.

OPERATION

COOLING OPERATION

1. Ensure that the drain tank is properly placed in the unit.
2. Install the exhaust duct properly (see air exhaust duct page). During the cooling operation, always place the duct through an open window, in order to exhaust warm air from the room.
3. Repeatedly press "mode" button to choose the cooling mode, LCD window will show " ☀ ".
4. Repeatedly press "TEMP" button to set a proper room TEMP. at 16℃ ~ 30℃.
5. Press " ~ " button to choose a proper fan speed, high, medium, low speed.

   Note:

   In order to improve the cooling efficiency, be careful that:

   a) If you room is directly exposed to the sun, draw the curtains please.

   b) Do not place the unit near other heat source.

DEHUMIDIFYING OPERATION

1. Keep the windows and the doors closed to aid in effectively dehumidifying the room.
2. Ensure that the drain tank is properly placed in the unit.
3. Repeatedly press "mode" button to choose the dehumidifying mode. LCD window will show "  ", the fan speed cannot be adjusted.
4. When used as dehumidifier only, do not use the air exhaust duct.

FAN RUNNING

1. Repeatedly press the "mode" button, select the fan mode. The LCD window shows " ~ ".
2. Press " ~ " to choose the fan speed:high-middle-low.

HEATING OPERATION

1. Press the "mode" button, select the heating mode, the LCD window shows " ● ".
2. Press " ~ " to choose the fan speed: hight-middle-low.

   Note:

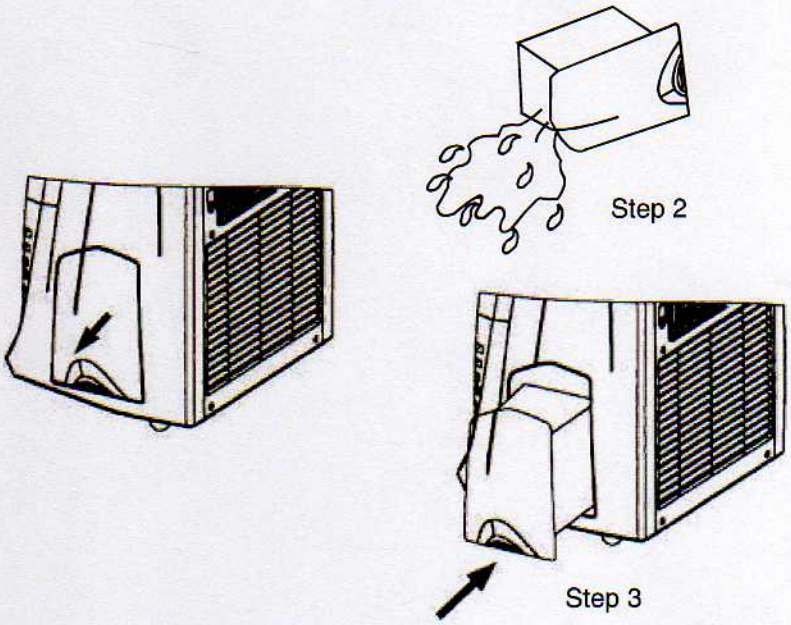
   In this case only PTC is working, the compressor and fan's motor halt.

OPERATION

WATER DRAINAGE

When in cooling or dehumidifying mode, the dew water will drain into the tank. When the tank gets full, the indicator will flash, and the buzzer will sound eight times, LCD window shows error code "E4" at the same time the compressor stops running, the fan continues to run in the set speed. After three minutes the unit will switch off.

As the step shown in the figure below. Take out the water tank, pour out the water inside the tank, then push it back to its original position.



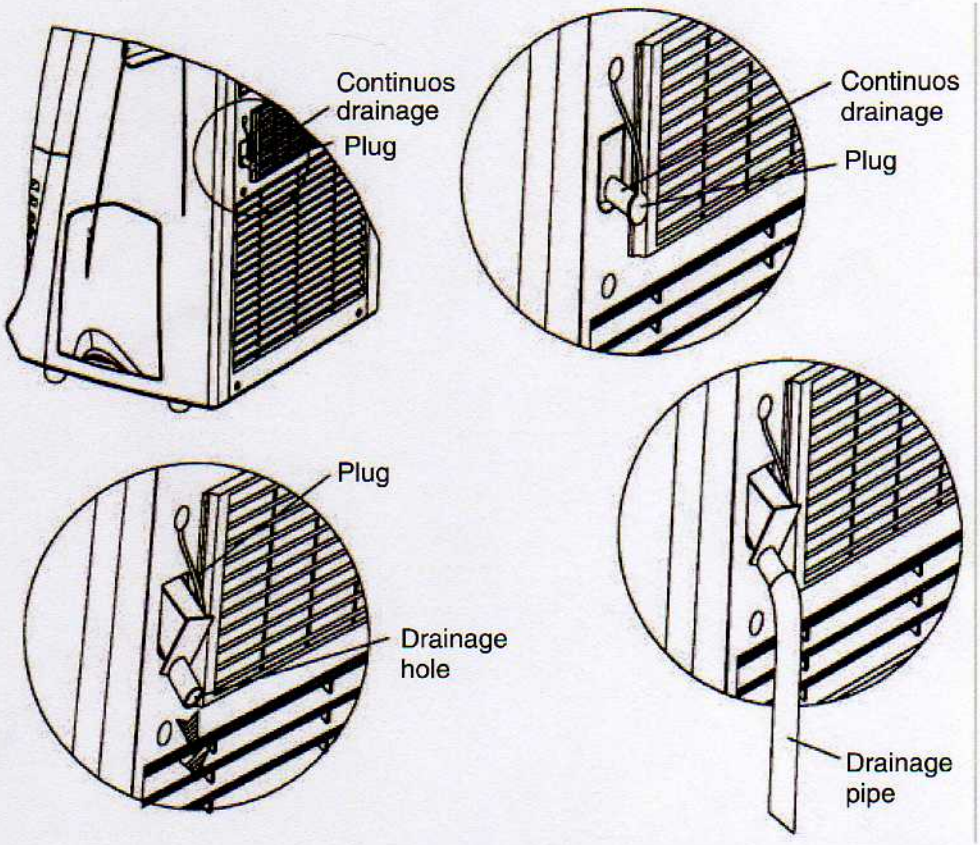
CAUTION ⚠

1. When in cooling or dehumidifying mode, do not take out the water tank, or the buzzer will sound and the compressor stops, and the mode changes to FAN.
2. If you want to take out the tank before it is full of water, please stop the machine first, and wait for 3 minutes to prevent the dew water from spilling into the unit.
3. There is a plastic pipe inside where the tank is placed. Do not remove the stopper while the unit is working because the water is used for cooling the copper tube.
4. Put in the plug of drainage in water drainage method.

OPERATION

METHOD OF CONTINUOUS DRAINAGE

1. Push down the drainage and make it inclined, pull out the plug of drainage.
2. Don't push down the drainage except for this application, otherwise it will leak.
   Don't make the continuous drainage clogged.
3. Hold the drainage, then insert the pipe into continuous drainage hole.
4. Drainage
   - When draining out water, don't press the drainage too forcefully.
   - When draining out water, don't make bend the pipe.



ATTENTION ⚠

1. When the unit is operating or just in this case has just been stopped, water may leak out.
   Please dry with rugs and connect the drainage pipe quickly.
2. When dismantling, please hold the drainage trough to draw out the pipe.

AIR EXHAUST DUCT

THE AIR EXHAUST DUCT MOUNTING METHOD

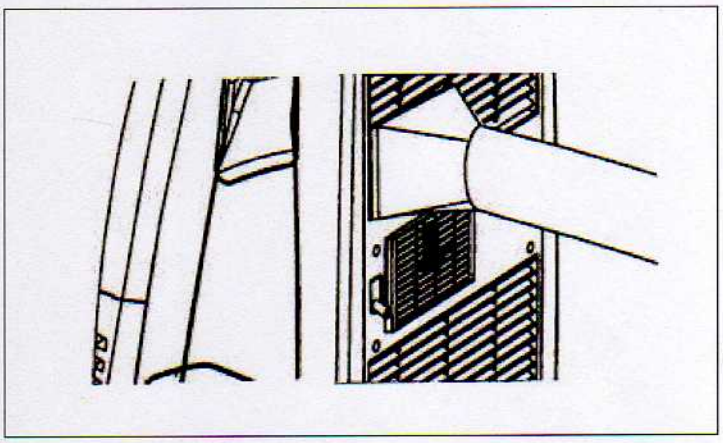
1) Fix the square end of the exhaust duct to the exhaust terminal of the unit.
2) Put the other end (discharge) to the nearest window

Attention:

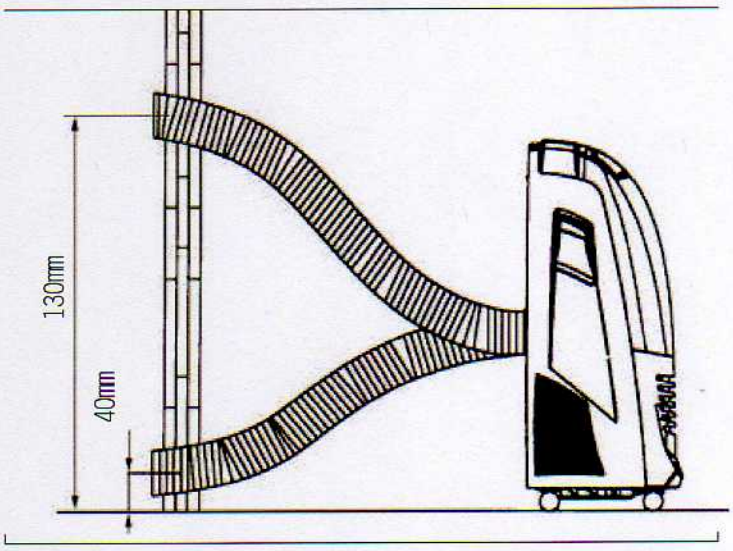
The length of the air exhaust must be between 500mm ~ 2000mm.

CAUTION

When mounting, try to keep the air exhaust horizonal.

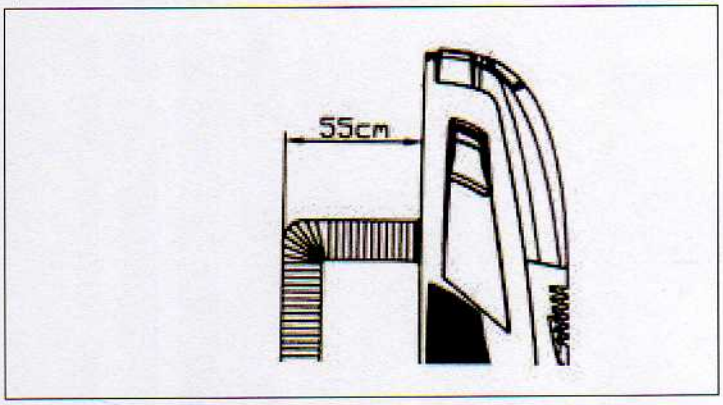


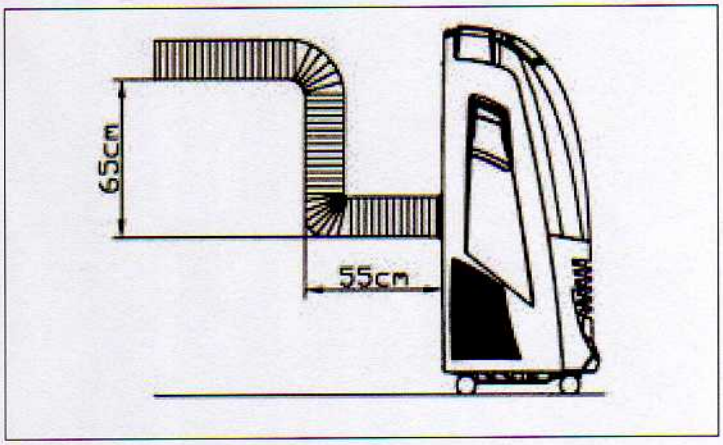
Correct mounting shown below (If mounting in the wall, the height of the hole should be 40cm ~ 130cm)



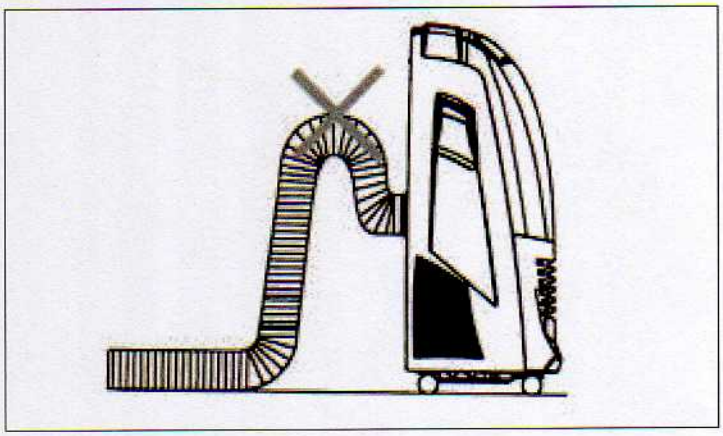
AIR EXHAUST DUCT

If the air exhaust requires bend, bend as shown as below.





The wrong mounting diagram (Air exhaust bend too large, easily cause malfunction).



TROUBLE-SHOOTING

BEFORE ASK FOR REPAIR SERVICE, PLEASE CHECK:

PROBLEM	CAUSE	SUGGEST SOLUTION
The air conditioner does not work.	Power supply fault. 1.Not plug in. 2.Bad plug or socket. 3.Fuse breaked.	1.Plug in correctly. 2.Change the plug or the socket. 3.Send the unit to the maintance center to change the fuse.
The indicator show the run mode, but it does not run.	The TIMER is set at on time.	Close the TIMER or wait for it to run automtically
In cooling mode, no cool air coming out.	1.The room temperature is lower than the temperature you have set. 2.There is frost on the evaporator.	1.It's normal. 2.The unit is defrosting, it will run after defrosting is finished.
In dehumidify mode, no cool air coming out.	1.Take off the air filter, there is frost on the suface of the evaporator.	1.The unit is defrosting, it will run after defrosting is finished.
LCD window show "E1"	1.Power supply was unstable. 2.Something wrong with the unit.	Stop the air conditioner by switch off the power supply. Start it 10 minutes later, if it display "E1" again,call the service center.
LCD window show "E4"	The watertank was overflow.	Drain the water (see page12.)