

Window Type Room Air Conditioner

User Manual



PHILCO® 

Remote Control Model:
PWV2007R, PWV2009R
PWV2012R, PWV2018R

Mechanical Model:
PWV2007M, PWV2009M
PWV2012M, PWV2018M
PWV2024M,

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Our design is based on the best efficiency and the lowest noise operation and it can keep the room comfortable. Please read this operating manual carefully before operating the unit and keep it for consultation.

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Care and maintenance

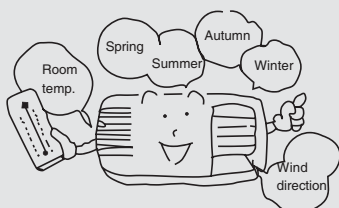
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Please read this operating manual carefully before operating the unit

The figures in this manual may be different with the material objects, please refer to the material objects for reference.

● Function

Introduction



Window type room air conditioners can regulate the room temperature and dry the room. It is convenient for your work, study and life. It can be widely used in residence, shop, hotel, office, library and laboratory, and so on.

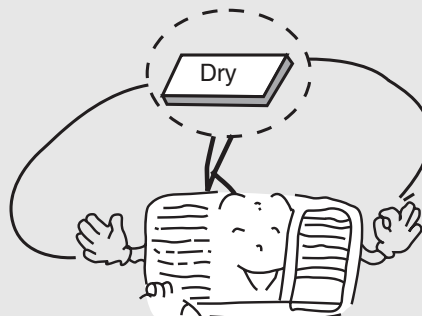
Cooling in summer

In hot summer, Air conditioner can cool down the room air by transferring heat out.



Dehumidifying in rainy or humid season

Without reducing the room temp., air conditioner can dehumidify and make the room air dry and comfortable.



Heating in winter (Only for heat unit)

In cold winter, Air conditioner can heat up room air.



Exchange fresh air

Open storm door to keep the fresh air in the room.



● Operating Condition

- Please operate air conditioner in the correct conditions as following.

COOL mode operation	DRY mode operation
<p>Outdoor temperature should be in range of 18℃ to 43℃, otherwise it is possible for air conditioner to breakdown.</p> <p>Room humidity should be lower than 90%. Otherwise, it is possible for air conditioner to dew at air conditioner surface and even drop water after running for so much time. But this is normal.</p>	<p>Outdoor temperature should be in range of 18℃ to 43℃, otherwise it is possible for air conditioner to breakdown.</p>

Power requirement

	<p>Rated voltage and voltage range: 230V ~ ± 10%</p> <p>* The electric components will be damaged when the voltage is too high. If the voltage is too low, the compressor will vibrate violently to damage the refrigerant system and easily cause the compressor and electric components not work.</p>	
	<p>The ground must be connected.</p> <p>* Special socket must be used. Furthermore, the socket and wiring must conform to the wiring regulations. And the earthing method must be reliable.</p> <p>* In fixed circuit, there must be electricity leakage protection switch of enough power capacity and air switch with enough space.</p>	
<p>Earth wire To ensure the reliable earthing, please do not connect earth wire to the following places:</p>		
<p>Water pipe</p>		

● Installation

Installation precaution:

Window type conditioner is so valuable and the improper installation of it will cause a lot of damage! Please associate the professional technician to install the unit and don't install it by yourself. Otherwise, we are not responsible for the damage like this.



Location:

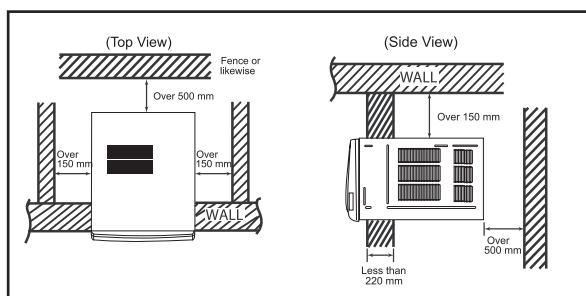
- The condensation water must be drained away conveniently.
- Install air conditioner unit far away from TV set or radio etc. to avoid disturbing video or voice.
- In salt and coastal area or place where is near thermal springs and polluted by sulphurous gas, or other special areas, please contact the seller before use.
- Avoid a place where is possible for inflammable gas to leak out.
- Avoid other heat sources or direct sun light.
- Avoid a place where is easy for children to touch.
- Don't use the unit in the immediate surroundings of a laundry, a bath, a shower or a swimming pool.
- For window type air conditioner with remote control, install in a location where is strong electromagnetic disturbance, you should contact the seller in advance to avoid the malfunction in use.

How to install:

- Choose a location where there are no any obstacle surrounding the unit, and the plug is accessible.
- Prepare the installation hole slightly bigger than unit size.
- Choose the installation space according to the following diagram.

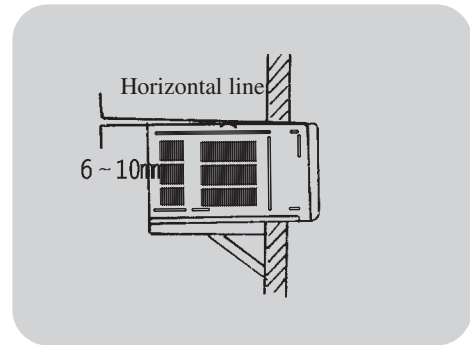
The indoor distance from obstructions should be 300mm (above), 1500mm (below), 500mm (left), 500mm (right) and 1500mm (front).

The outdoor distance from obstructions should be over 150mm (above, left, right) and over 500mm (back). Please refer to the drawing below.



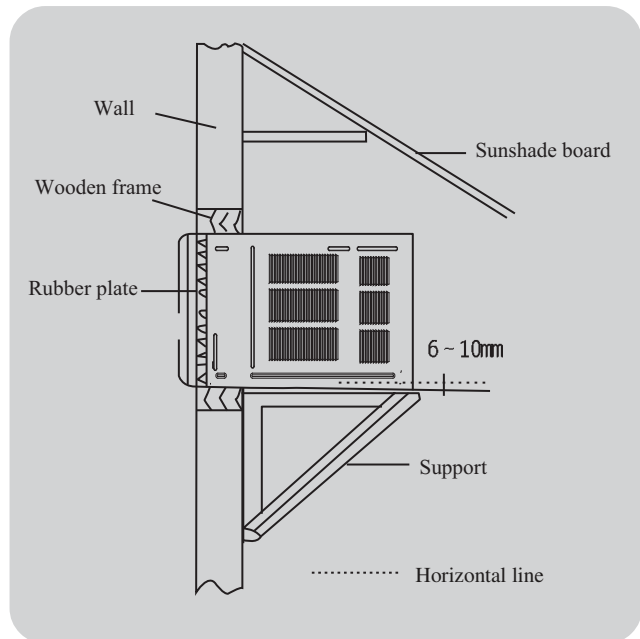
Installation procedure:

- 1) Remove the sticker from the front panel.
- 2) Put the unit into the installation hole.
 - When installing the unit, it should be slanted down to the back to avoid the enlargement of noise or vibration. (Slant between 6-10mm.) (Shown at right figure.)
 - The installation place should be strong enough to avoid the enlargement of noise or vibration.
- 3) Fill up sews in the cabinet with sponge or foam.



Installation assistance:

- Use iron support
The installation hole should be strong enough to support the air conditioner. If it cannot, iron support has to be used outdoors.
Iron support should be fixed on the building (Shown at right figure.)
- Use sunshade board
Air conditioner should avoid anything to be dropped into it and avoid direct sunshine. If there is no cover on it, you should contact the seller for installing the sunshade board. When installing the sunshade board, don't let it block the air inlet at the side grille.



Drain water for one style:

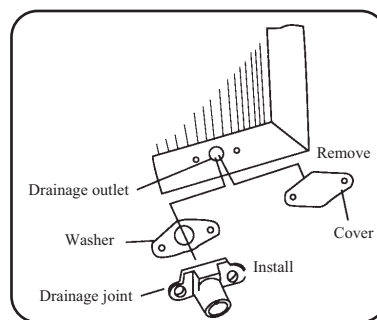
To get the maximum cooling efficiency, the air conditioner is designed to splash the condensate on the condenser coil.

If the splashing sound annoys you, you can provide an outside drain by using the following procedure, which may however cause a small loss of performance.

1. There is a drainage outlet at the back of the unit.
2. Remove cover from the drainage outlet, and then connect drainage joint to it with screw.
3. Connect the drain hose to the outlet.

Note:

Drain hose or tubing can be purchased locally to satisfy your particular needs.

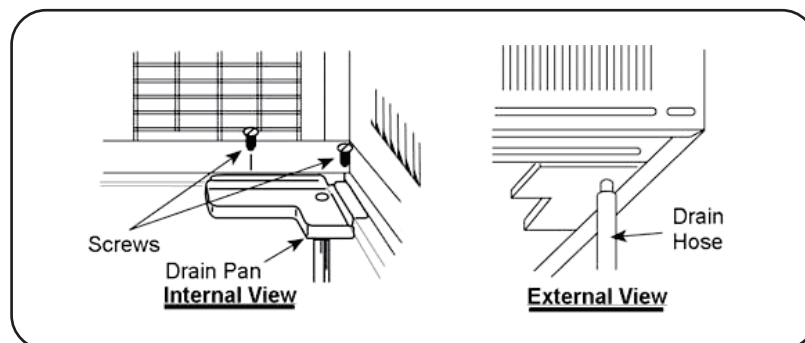


Drain water for another style:

To get the maximum cooling efficiency, the air conditioner is designed to splash the condensation water on the condenser coil.

To the cooling only unit, If the splashing sound annoys you, you can provide an outside drain by using the following procedure, which may however cause a small loss of performance.

1. Slide out the chassis from the cabinet.
2. Remove the rubber plug from the body base plate.
3. Install the drain pan to the corner of the cabinet with 2 screws.
4. Connect the drain hose to the outlet on the drain pan bottom.
5. Slide the chassis into its original place in the cabinet.



Note:

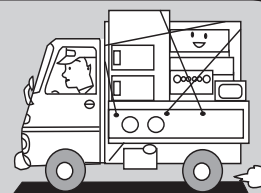
- Drain pan and drain hose must be installed before using reverse cycle models.
- Drain hose or tubing can be purchased locally to satisfy your particular needs.

● Notes for installation

Remove

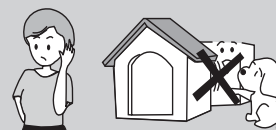
Before removing air conditioner to the other place, you should contact the seller firstly.

Then it must be done under the direction of the professional technician. In addition, the charge of this must be paid.



Noise

- Install in a location where is firm enough to avoid the enlargement of noise and vibration.
- Don't put anything in front of the outlet of outdoor unit to avoid increasing noise.
- Be sure that hot air or noise will not inconvenience neighbors.
- Please contact the seller as soon as there is strange noise during operation.
- Please use the safety support.



Electric wiring

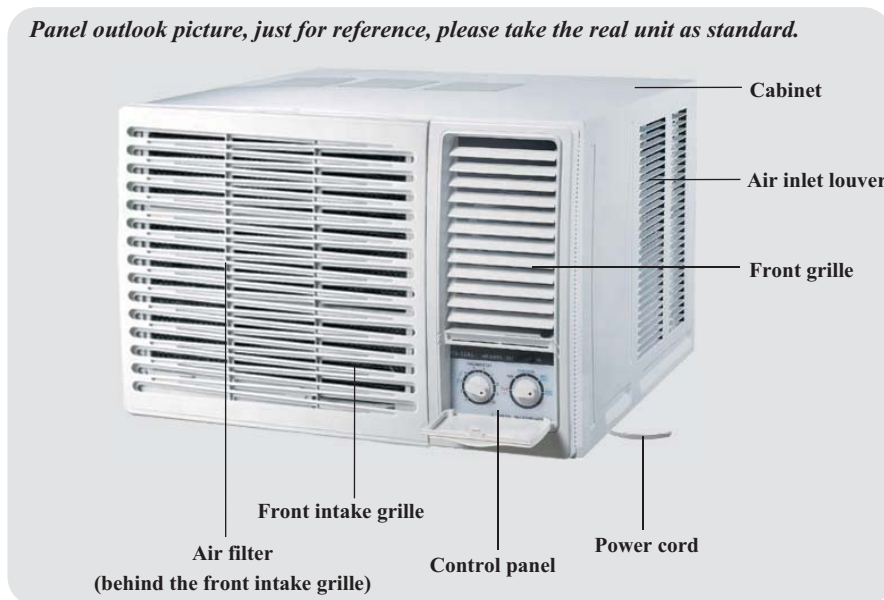
- Must connect with ground reliably.
- The exclusive circuit must be used. But removable socket can't be used because poor contact of it can cause over heat or fire.
- Don't pull the power cord strongly.
- In fixed circuit, there must be electricity leakage protection switch and leakage current is less than 30mA.
- **Connecting method between air conditioners and power cord and interconnecting method of each individual element with one another should accord with wiring diagram on the unit.**
- **The air conditioner should be installed in accordance with national wiring regulation.**
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring
- Air switch (thermal-magnetic breaker) should be installed in the circuit.
- If the supply cord is damaged, it must be replaced by the manufacturer or your dealer or a qualified person to avoid a hazard.
- All The dectrical work must be done according to the local wiring regulations.



● Parts identification

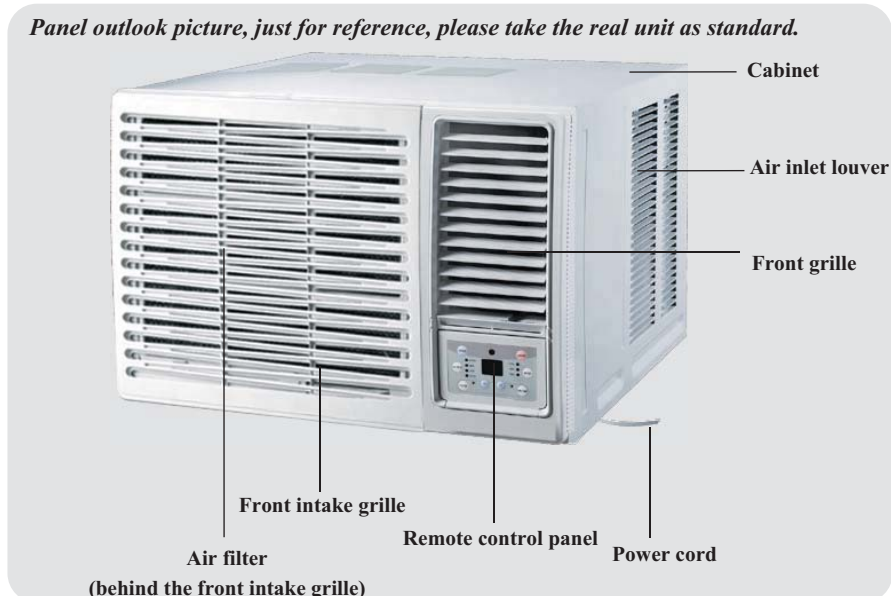
Mechanical Model

Panel outlook picture, just for reference, please take the real unit as standard.



Remote Control Model

Panel outlook picture, just for reference, please take the real unit as standard.

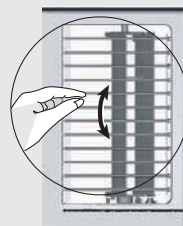


Air direction adjustment

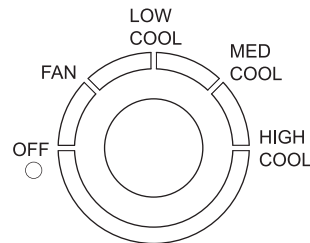
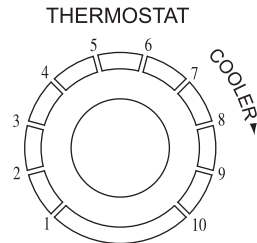
Vertical airflow direction vane

(Airflow direction adjustment up and down).

The vertical airflow direction vane is controlled by positioning the vane to discharge the air upwards, downwards or straight out.



● Main switch operation procedure (Applicable to Mechanical Models ONLY)



1. Main Control Knob

Set to Low Cool, Med Cool or High Cool as desired (FAN setting operates the fan only.)

CAUTION: If the main control knob is turned off changed to a fan setting from a cooling operation setting, WAIT at least 3 minutes before resetting to cooling operation.

2. Thermostat control Knob

Set the thermostat control knob to your desired setting (Usually 6-7 is recommended). If the room temperature is not as desired after a reasonable period, turn the thermostat. When the thermostat control knob is set to 10, moisture may freeze onto evaporator fins and turn the thermostat control knob counter clockwise. This will quickly defrost the evaporator fins so that normal cooling can be resumed.



3. Air Swing Switch (Airflow direction adjustment Side-to Side)

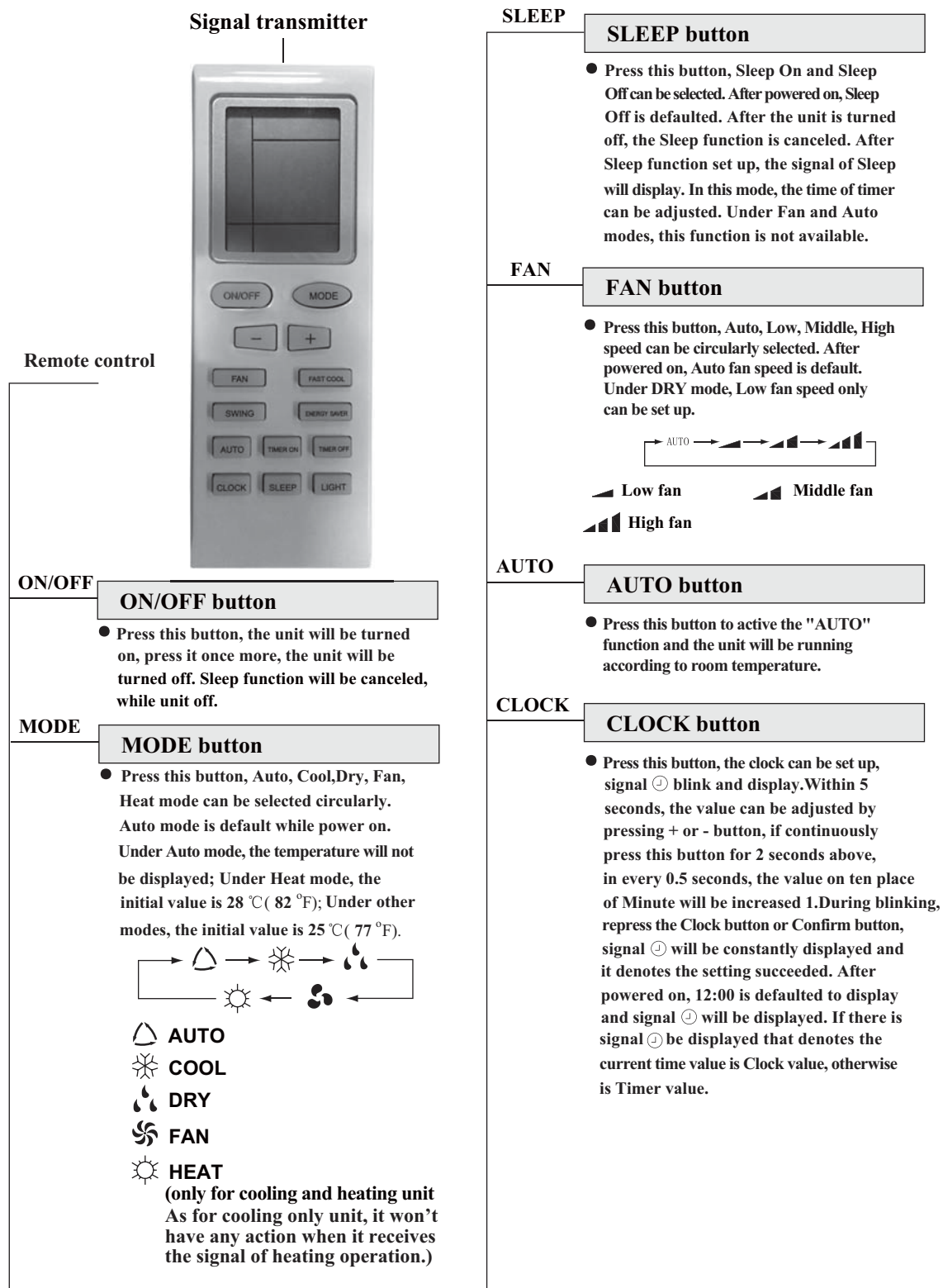
To obtain a fix airflow direction, set the air swing switch to "ON" for the vanes to swing from side to side until the desired flow direction is reached, then switch it to "OFF".
For continuous side-to-side air circulation, set the air swing switch to "ON".

● Operation of wireless remote control (Applicable to Remote Control Models ONLY)

■ Name and function of wireless remote control

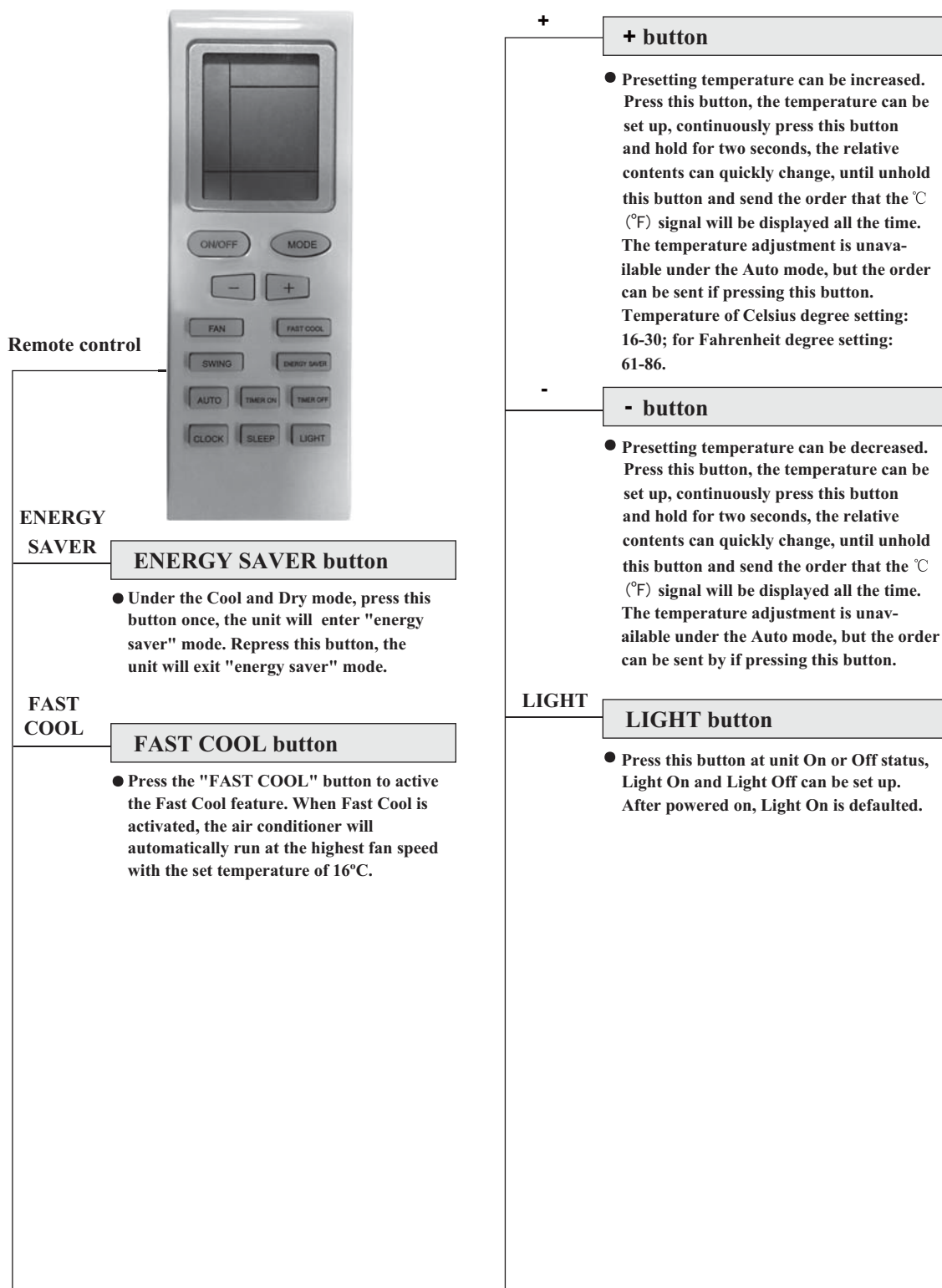
Note:

- Besure that there are no obstructions between receiver and remote controoler; Don't drop or throw the remote control; Don't let any liquid in the remote control and put the remote control directly under the sunlight or any place where is very hot.



Name and function of wireless remote control

Note: ● This wireless remote control is universal, and it could be used for many units, some buttons of this control which are not available to this unit will not be described below.



■ Name and function of wireless remote control

Note:

- This wireless remote control is universal, and it could be used for many units, some buttons of this control which are not available to this unit will not be described below.

Remote control



SWING

SWING BUTTON

- When it is pressed, the louvers start to rotate automatically and stop when repressed.

TIMER ON

TIMER ON BUTTON

- At unit off, press Timer On button, "HOUR ON" will blink and display, signal ⌚ will be concealed, in the timer on setting. During 5 seconds blinking, the value can be adjusted by pressing + or - button, every press of this button, 0.5 hour will be increased or decreased, but continuously press the + or - button, 2 seconds later, the value will be changed quickly, 0.5 hour will be increased in every 0.25 second automatically by the remote controller. During blinking, press the Timer On button to confirm the time. After Timer On set up, when repressing the Timer On button, the Timer On setting will be canceled. After powered on, no Timer is defaulted, signal "HOUR ON (OFF)" will not display, and only the clock is displayed. After the timer reached, the relative contents with Timer will conceal. Before setting the Timer, please adjust the clock to the current actual time.

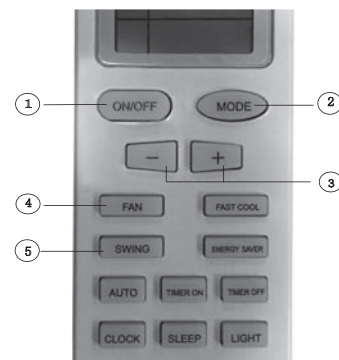
TIMER OFF

TIMER OFF BUTTON

- At unit on, press Timer Off button to enter into Timer Off setting. The method of setting is the same as for TIMER ON.

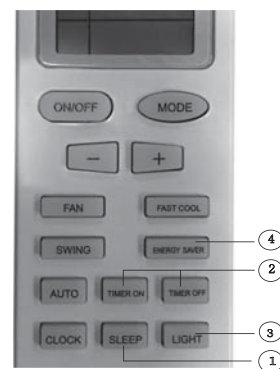
Guide for operation- general operation

1. After powered on, press ON/OFF button, the unit will start to run. (Note: When it is powered on the guide louver of main unit will close automatically.)
2. Press MODE button, select desired running mode.
3. Pressing + or - button, to set the desired temperature (It is unnecessary to set the temp. at AUTO mode.)
4. Pressing FAN button, set fan speed, can select AUTO FAN, LOW, MID and HIGH.
5. Pressing SWING button, to select the swing.



Guide for operation- Optional operation

1. Press SLEEP button, to set sleep.
2. Press TIMER ON and TIMER OFF button, can set the scheduled timer on or timer off.
3. Press LIGHT button, to control the on and off of the displaying part of the unit (This function may be not available for some units).
4. Press ENERGY SAVER button, can realize the ON and OFF of ENERGY SAVER function.




Introduction for special function

★ About AUTO RUN

When AUTO RUN mode is selected, the setting temperature will not be displayed on the LCD, the unit will be in accordance with the room temp. automatically to select the suitable running method and to make ambient comfortable.


★ About lock

Press + and - buttons simultaneously to lock or unlock the keyboard. If the remote controller is locked, the icon  will be displayed on it, in which case, press any button, the mark will flicker for three times. If the keyboard is unlocked, the mark will disappear.

★ About switch between Fahrenheit and Centigrade

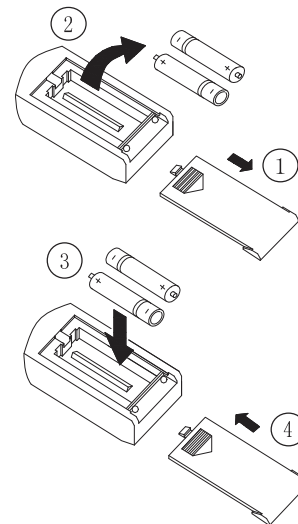
Under status of unit off, press MODE and - buttons simultaneously to switch °C and °F.

■ Changing batteries and notices

1. Slightly to press the place with , along the arrowhead direction to push the back cover of wireless remote control. (As show in figure)
2. Take out the old batteries. (As show in figure)
3. Insert two new AAA1.5V dry batteries, and pay attention to the polarity. (As show in figure)
4. Attach the back cover of wireless remote control. (As show in figure)

★ NOTE:

- When changing the batteries, do not use the old or different batteries, otherwise, it can cause the malfunction of the wireless remote control.
- If the wireless remote control will not be used for a long time, please take them out, and don't let the leakage liquid damage the wireless remote control.
- The operation should be in its receiving range.
- It should be placed at where is 1m away from the TV set or stereo sound sets.
- If the wireless remote control can not operate normally, please take them out, after 30s later and reinsert, if they cannot normally run, please change them.

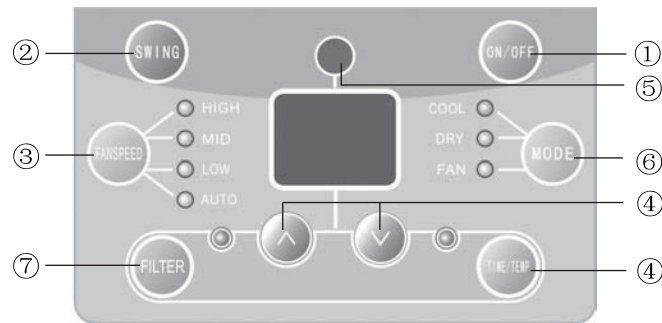


Sketch map for changing batteries

Remote control panel

Note:

If wireless remote controller is lost, open the surface panel and operate manually.



1 POWER BUTTON

Operation starts when pressing this button, and stops when pressing this button again.

2 SWING BUTTON

Activate the automatic air swing function.

3 FAN SPEED BUTTON

Select the fan speed HIGH, MID, LOW and AUTO in sequence.

4 TEMP/TIMER BUTTON

Press the ▲ keypad to increase the set (operating) temperature of the unit. and Press the ▼ keypad to decrease the set (operating) temperature of the unit. The temperature setting range is from 16~30℃

Press the ▲ keypad also to increase the selected time in 1 hour increments, and Press the ▼ keypad to decrease the selected time in 1 hour decrements, The time setting range is from 0~24 hours.

5 SIGNAL RECEIVER

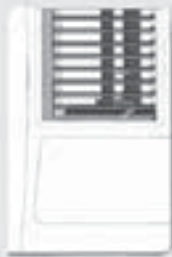
6 MODE BUTTON

Select the operation mode, or AUTO, COOL, FAN, DRY.

7 FILTER BUTTON

This feature is a reminder to clean the Air Filter (See Care and Cleaning) for more efficient operation and cooling. The LED (light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the "Check Filter" button and the light will go off.

VENTILATION LEVER



Ventilation Lever

When the slider at the:



-"OPEN" position, the ventilation door opens to allow air, smoke or odors to be expelled from the room.

When the slider at the:

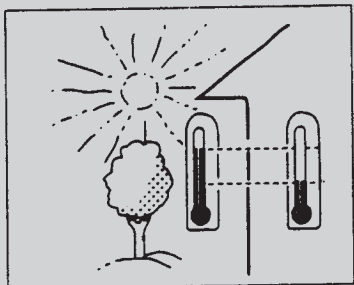


-"CLOSE" position, the ventilation door is closed and the air will be circulated inside the room and conditioned.

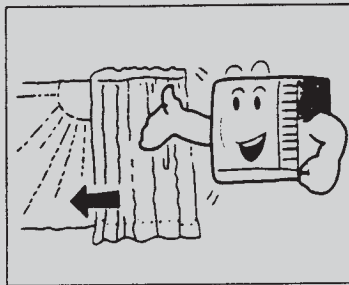
● Operation Tips

Operation for comfort and economy

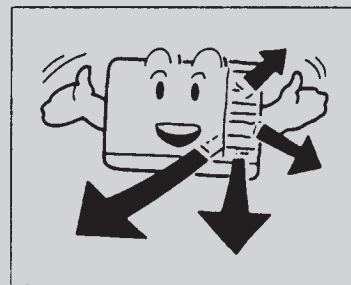
Do not overcool the room temperature. This is not good for health and wastes electricity.



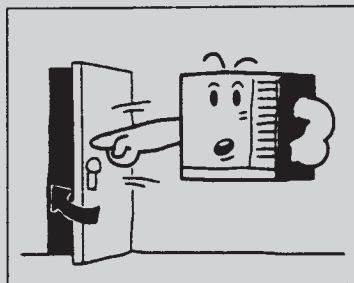
Keep blind or curtains closed. Do not let sunshine enter the room directly when the air condition is in operation.



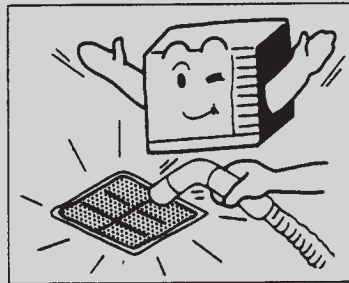
Keep the room temp. uniform. Adjust the vertical and horizontal airflow direction to ensure a uniform temperature in the room. Air can't be discharged to the direction of air-in.



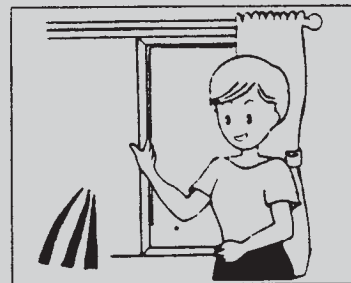
Make sure that the doors and windows are tightly closed. Avoid opening doors and windows as much as possible to keep air conditioning in the room.



Clean the air filter regularly. Blockages in the air filter reduce dehumidifying effects. Clean the air filter at least once every two weeks.



Ventilate the room occasionally. Since windows are kept closed, it is a good idea to open them and ventilate the room now and then. When starting the unit, curtains or windows should be closed to prevent the heat/cool leakage.

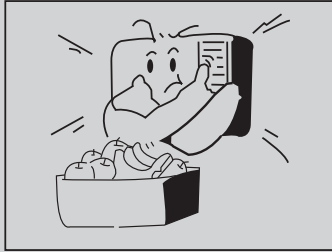
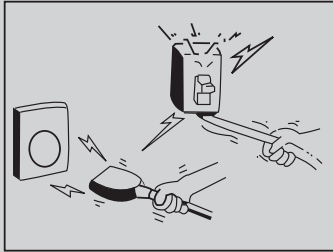


● Caution

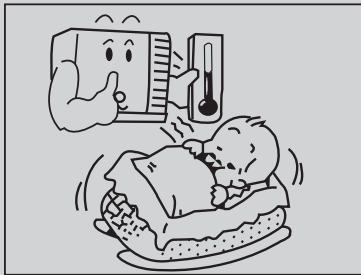
Operations for safety and health

- 1) The plug must be accessible after the appliance is positioned.
- 2) Do not use this appliance in the laundry.
- 3) If the power cord is damaged, it must be replaced by the manufacture or its service agent in void of hazard.

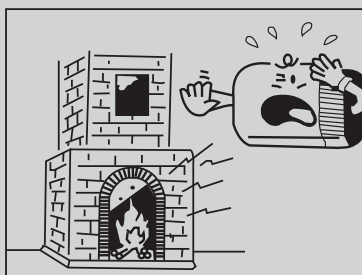
- Do not pull out the power cord.
- Damage to the cord may result in serious electric shocks.
- Do not use the air conditioner for other purposes except for cooling the room.
- Do not use the air conditioner for other purposes such as drying clothes, preserving foods, or cultivating vegetables.
- Do not block the air intake and outlet vents
This causes lowered performance and irregular operation.
- Do not insert sticks or other objects into these vents as it is dangerous to touch the electric components and the fan.



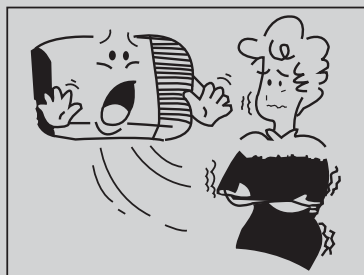
Select the most appropriate temperature.
Pay attention to adjust the temperature to suit the conditions.
Rooms occupied by infants, the elderly, or the sick should be kept at an appropriate temperature.



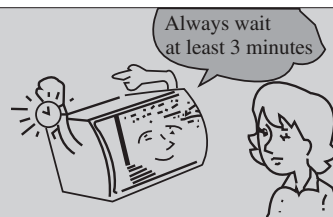
Do not use heating apparatuses in the vicinity. The air conditioner's plastic parts will melt if exposed to excessive heat.



Avoid exposing the body directly to a continuous unidirectional air flow for long periods.
This is not recommended for health reason.



Always wait at least 3 minutes before switching the air conditioner on again after you have switched it off during cooling or heating.



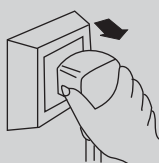
● Care and maintenance

Always turn off the air conditioner and main power supply before cleaning to ensure safety.

Cleaning unit

1. Cut power off before cleaning.

Plug out only after
air conditioner
stops at all.



2. Use soft cloth when
cleaning cabinet.

If the cabinet is very
dirty, dip cloth into warm
water below 40°C , dry
the cloth and then rub off
the dirt.



Dry the cloth by
hands before
cleaning.

3. Don't use gas, benzene, solvent, wash, chemical
solvent, etc. for cleaning.



4. Do not splash water directly into indoor
unit, in which
there are micro-
computer and
circuit plate,
they must not be
drenched with
water.

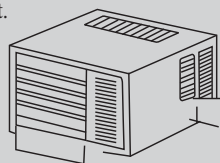


Air filter

The air filter behind the intake grille should be washed at least
once every two weeks or as often as it needs cleaning.

How to clean the air filter:

1. To remove the air intake grille, grasp the tab on the filter and
pull to take out.

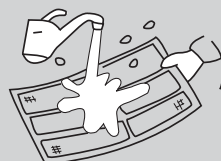


2. Vacuum the filter on the dusty side to remove light dust.



Vacuum cleaner

3. Wash the filter, cleaner side up under gently flowing water
to wash out accumulated dust and lint.



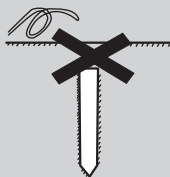
4. If the filter is very dirty, use a mild household detergent in
the wash water.



Let the filter dry thoroughly before reinstalling it.
If. necessary, please ask the professional personnel to
clean it.

- * Check earth wire

Is it broken
or loose?







- * Check if air inlet and outlet of outdoor unit
are blocked or not.

Air lock could result
in bad efficiency.



● Trouble shooting guide

Please check the following items before asking for repair, it saves your time and money.

Fault phenomenon	Trouble-shooting
<p>Air conditioner does not operate at all.</p> 	<ul style="list-style-type: none"> * Is there a power failure? * Is the plug out? * Is power fuse or switch off? * Whether the voltage is too high or too low?
<p>Cool or heat efficiency is not good.</p> 	<ul style="list-style-type: none"> * Is air inlet or outlet locking? * Is there any other heat/cool source in room? * Are air filters dirty very much? * Is indoor fan speed set at LOW? * Maybe the room is too hot/cool when the unit is started.
<p>Foggy air flows out.</p> 	<ul style="list-style-type: none"> * At COOL mode operation, sometimes there is foggy air flowing out of indoor unit, this is because the room humid air has been cooling rapidly. * The unit is normal while the indoor outlet is sending out some odor, because the inlet air may be mixed with the smell of furniture and smoke.
<p>The air conditioner operation is noisy.</p> 	<ul style="list-style-type: none"> * For a noise that sounds like water flowing: This is the sound of freon flowing inside the air conditioner unit. * For a noise that sounds like a shower: This is the sound of the dehumidifying water being processed inside the air conditioner unit.
<p>It seems that condensation is leaking from air conditioner.</p>	<ul style="list-style-type: none"> * Condensation occurs when the airflow from the air conditioner cools the warm room air.
<p>Air conditioner does not operate for about 3 minutes when restart.</p>	<ul style="list-style-type: none"> * This is to protect the mechanism. * Wait about three minutes and operation will begin.

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

- *Operation starts or stops abnormally;
- *Power fuse or switch often breaks;
- *Carelessly splash water or something into air conditioner;
- *Electrical lines are much hot or lines cover breaks;
- *Other strange situations.



● After service

- If your air conditioner has the questions of quality or anything else, please contact the service center of Philco.



Please record the following product information

- Model _____
- Serial No. _____
- Name of the franchiser _____
- Date of purchase _____

The continuous improvement of products, such as function is changed, without prior notice, if there are any questions, please contact customer service , Sorry for the inconvenience, please forgiveness.

ToolBox Customer Service Centre :
4/F DCH Building 20 Kai Cheung Road, Kowloon Bay Kowloon, Hong Kong

Service E-mail : 8210service@gilman-group.com
Please register now at : www.toolbox.hk
Website : www.gilman-group.com



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5/F DCH Building 20 Kai Cheung Road, Kowloon Bay Kowloon, Hong Kong



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