

Keep Well This Manual.
Read Rules for Safe Operation and Instructions Carefully.

WINDOW – TYPE AIR CONDITIONER

USER'S MANUAL

CS0094(B)

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NOTE

The air conditioner you purchased may be slightly different from the pictures in this manual, the actual shape shall prevail. See the relative operations.

FEATURES

1. This window-type air conditioner can adjust your room temperature automatically and dehumidify the room which provide you with all of the "Home Comfort" requirements.
2. Adopts six advanced patent techniques and has the reliable performance.
3. Your air conditioner is a multi-functional room air-exchanging, air-processing appliance with highly efficient in energy savings.
4. Providing two ways for your choice to deal with the condensed water, which prolongs the unit life.
5. This unit is applied to all kinds of places including factories, mines, restaurants, hospitals, hotels, home laboratories, computer rooms etc., Where adjustment and control of room temperature and humidity are needed.

ELECTRICAL SAFETY RULES

CAUTION

- ☞ All wiring must comply with local and national electrical codes and be installed by a qualified electrician. If you have any questions regarding the following instructions, contact a qualified electrician.
- ☞ Never insert your fingers or any foreign objects into the air outlet. Take special care to warn children of these dangers.
- ☞ To avoid the possibility of personal injury, be sure to disconnect power to the unit before installing and/or servicing and/or cleaning.
- ☞ If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person in order to avoid a hazard.

1. The power cord is distinguished according to the cord color just as follows (see fig. 1):
2. For your safety and protection, this unit is grounded through the power cord .(see fig. 2). Please contact the manufacturer or its service agent or a similar qualified person if you want to replace it.
3. Be sure that the unit being correctly grounded. The wall outlet (Air-break switch)should be provided with reliable earth wire.
4. The unit should be provided with an individual branch circuit and the fuse size should be same as that of the power cord and wall outlet.(Air-break switch).

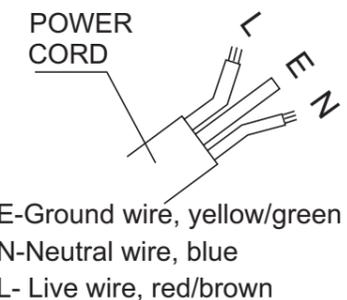


Fig. 1

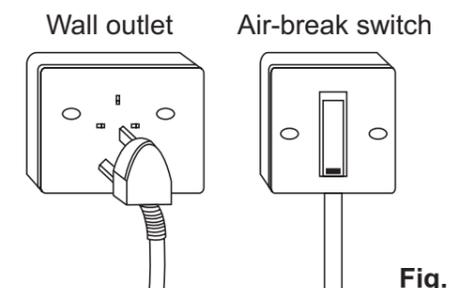
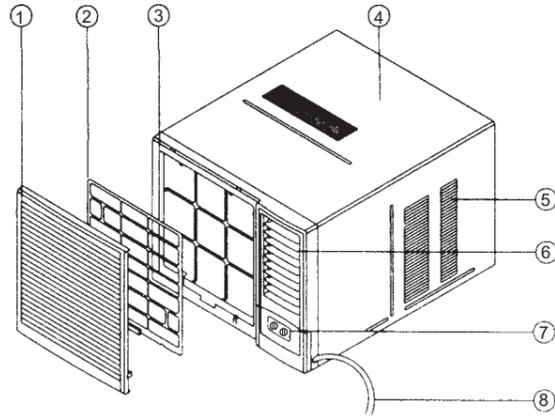


Fig. 2

UNIT PARTS IDENTIFICATION



1. Front panel
2. Air filter
3. Frame
4. Cabinet
5. Air inlet grille (outdoor side)
6. Air outlet grille
7. Operation box
8. Power supply cord

ACCESSORIES

Seal



1

Wooden screw



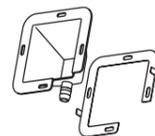
8

Drain Plug
(option)



1

Drain Pan
(option)



1

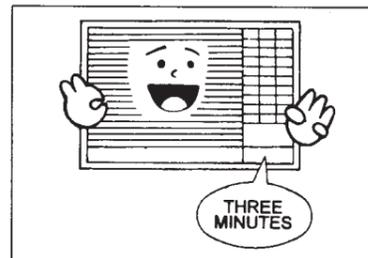
Screw(Fasten
the front panel)



2

POINTS FOR ATTENTION WHEN OPERATING

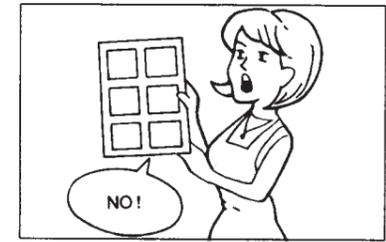
1. During the course of operating, if you have turned off the unit or changed operation mode from COOLING MODE to FAN MODE, be sure to keep that state for at least three minutes before switching to COOLING MODE again.



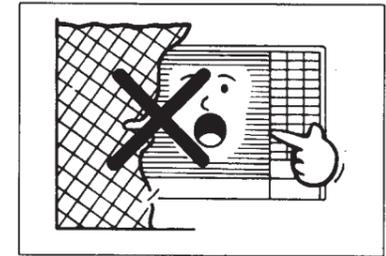
3

2. Attaching the Air Filter

Before starting the air conditioner operation, make sure that the air filter is well attached. If the unit has not been used for a long time, it is recommended to clean the air filter before your using the unit. For continuous use, clean the air filter at least once every two weeks.



3. Before turning on the unit, make sure that the air inlet grille and air outlet grille are not obstructed by anything.



4. This air conditioner is designed to be operated under conditions as follows:

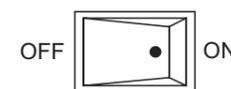
Cooling Operation	Outdoor temp.:	18-43°C(T ₁ Environment)	21-52°C(T ₃ Environment)
	Indoor temp.:	18-32 °C(T ₁ Environment)	18-32°C(T ₃ Environment)
Note: The relative humidity of home should be less than 80%. If the unit is used in a condition with a relative humidity over 80%, there will be condensed water on the appearance of the unit.			
Heating Operation	Indoor temp.: -5°C-30°C		

5. If the unit is operated beyond the conditions specified above, it may cause a failure of the unit.
6. Relocation of the unit:
When changing the installation location of the air conditioner, consult the selling agent from which you bought your unit.

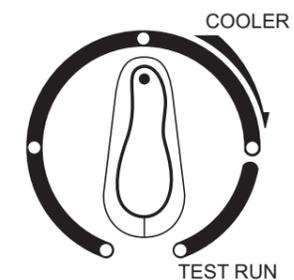
OPERATION PANEL(Cooling only type)

The operation panel would look like one of the following:

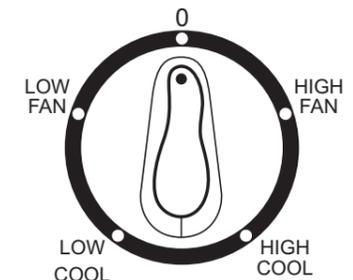
AUTO LOUVER



THERMOSTAT

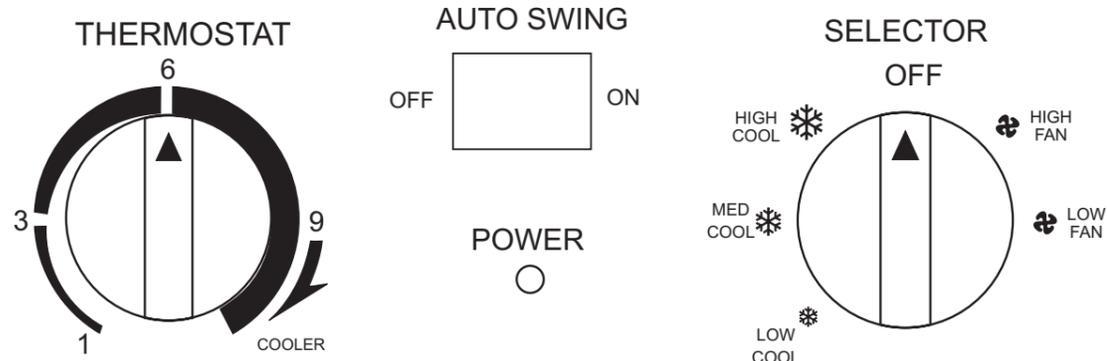


SELECTOR



- ⚠ WAIT THREE MINUTES BEFORE RESTARTING

4



WAIT THREE MINUTES BEFORE RESTARTING

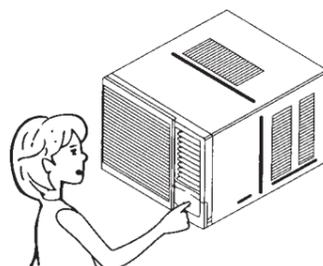
POWER indicator(some models without): This indicator light remains on when the unit is on and goes off when the SELECTOR is on "OFF" position.

NOTE: The outline of the operation panel is based on typical model, the function is the same with your air conditioner while some difference may exist in appearance.

OPERATION INSTRUCTION

OPERATION COVER (some models without)

Note: Don't press or swing the opened operation cover.



SELECTOR

To set desired cooling temperature, simply rotate the **SELECTOR** knob to the appropriate setting.

"**HIGH FAN**" will circulate the air at a maximum speed without cooling.

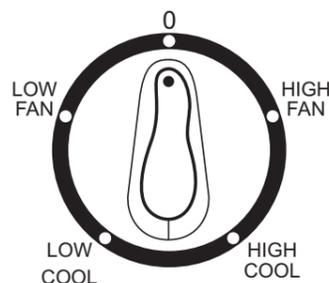
"**LOW FAN**" will circulate the air at a minimum speed without cooling.

"**HIGH COOL**" provides cooling, automatically with maximum air circulation.

"**LOW COOL**" provides cooling, automatically with minimum air circulation.

"**0**" will completely shut off the unit.

SELECTOR

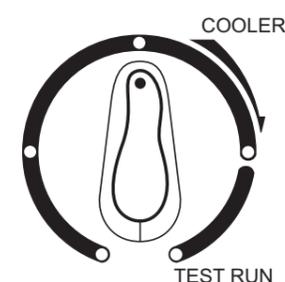


Note

When turning the SELECTOR knob from "LOW COOL" to "HIGH COOL", keep your speed slow as far as possible. Do not change the operation mode between "LOW COOL" and "HIGH COOL" too often.

THERMOSTAT

THERMOSTAT



The thermostat automatically starts and stops the running of the compressor in the air conditioner in order to control and maintain a comfortable room temperature. When the room temperature reaches the desired setting, cooling will automatically stop. When the room temperature rises above, cooling resumes. This results in efficient use of power and economical cooling.

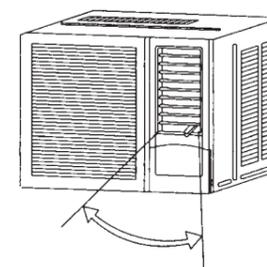
The operating method is as follows: turn along the arrow, the temperature setting becomes lower, when you feel it is too cool, rotate the knob to the "original" direction. When you feel it is too heat, rotate the knob to the "COOLER" direction.

Note

- "**TEST RUN**" is used to test the compressor and make sure unit is working properly. When the knob is rotated to this position, the unit is kept in cooling mode and automatic temperature control is cut off. Do not use this position for regular operation.
- During the cooling operation of the unit, when the thermostat knob is rotated clockwise, allow at least three minutes before turning back the knob to the "**COOLER**" direction. Otherwise the fuse may blow due to an overload of the unit.

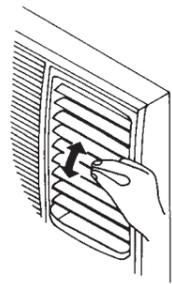
AUTO LOUVER(/AUTO SWING)

Horizontal air flow adjustment (automatically)



When the AUTO LOUVER(/AUTO SWING) switch is turned to "ON" position, the vertical louvers automatically oscillate right and left sweeping the cold air alternately to obtain comfortable cooling. The vertical louvers may be stopped at any position when the AUTO LOUVER(/AUTO SWING) switch is turned "OFF".

Vertical air flow adjustment (manually)

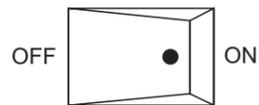


To adjust vertical air flow direction, adjust any one of the horizontal louver blades. When turning up or down the horizontal louver blades, always keep horizontality the top or bottom blades. This can effectively prevent water drops condensed on the front panel of the unit.

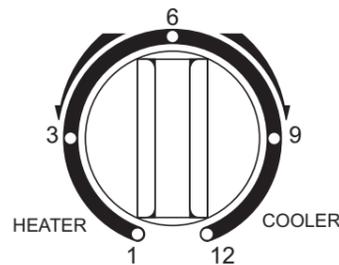
OPERATION PANEL(Cooling/Heating type)

The operation panel would look like one of the following:

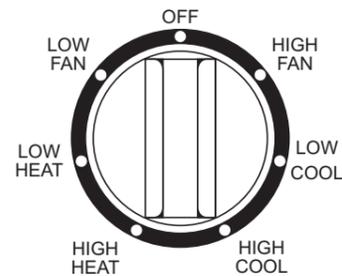
**AUTO LOUVER
(/AUTO SWING)**



THERMOSTAT

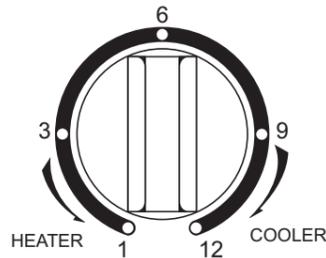


SELECTOR



WAIT THREE MINUTES BEFORE RESTARTING

THERMOSTAT



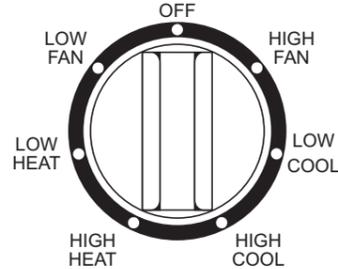
AUTO SWING



POWER



SELECTOR



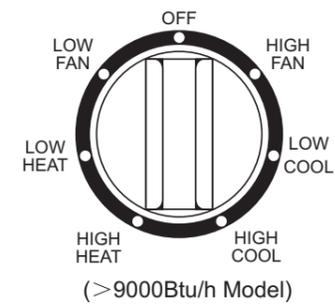
WAIT THREE MINUTES BEFORE RESTARTING

POWER indicator(some models without): This indicator light remains on when the unit is on and goes off when the SELECTOR is on "OFF" position.

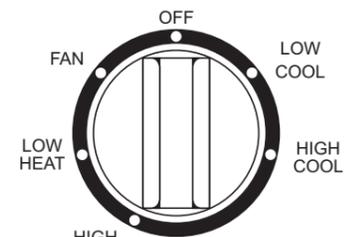
NOTE: The outline of the operation panel is based on typical model, the function is the same with your air conditioner while some difference may exist in appearance.

& FUNCTION SELECTION(Cooling/Heating type)

SELECTOR



(>9000Btu/h Model)



(<=9000Btu/h Model)

The function selection knob controls fan speed or cooling speed.

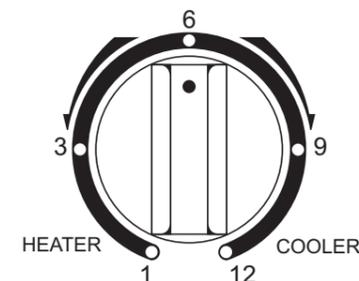
- (1) When it is set to "HIGH FAN", strong air flow comes out.
- (2) When it is set to "LOW FAN", air flow becomes weaker.
- (3) When it is set to "HIGH COOL", fast cooling is achieved.
- (4) When it is set to "LOW COOL", tender cooling can keep the temperature.
- (5) When it is set to "HIGH HEAT", fast heating is achieved.
- (6) When it is set to "LOW HEAT", tender heating can keep the temperature.
- (7) When it is set to "OFF", the air conditioner does not run.
- (8) When it is set to "FAN", strong air flow comes out.

CAUTION

- + When the switch is set to "HIGH FAN" or "LOW FAN", the air conditioner only blows air, without cooling or heating.
- + Slowly turn the knob from "LOW COOL" (LOW HEAT) to "HIGH COOL" (HIGH HEAT), do not turn it too often.
- + When room temperature drops below 21°C and the unit is cooling frost may form on the evaporator. If this occurs, operate the air conditioner on the **FAN(HIGH FAN)** setting to defrost.

& THERMOSTAT

THERMOSTAT



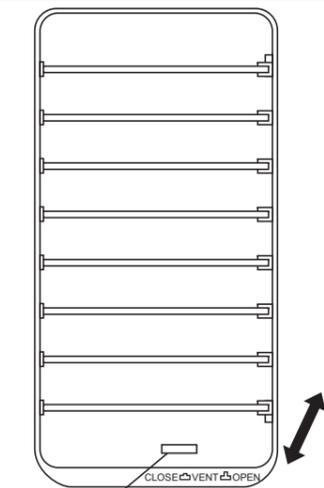
The thermostat automatically starts and stops the operation in order to keep the room temperature at a proper level, and this results in efficient use of power and economical cooling.

Operate the thermostat knob as shown. The temperature you are setting gets higher, from "6" to "1", lower from "6" to "12".

CAUTION

- & During cooling operation, if you have turned the Thermostat knob in the direction from (12) to (1), be sure to wait at least three minutes before returning the knob back toward (12). Immediate returning of the knob may cause undue load to be applied to the machine, resulting in a blown fuse.
- & The knob does not go over the range between (1) and (12).
- & For the type adopts PTC heater, when the SELECTOR is set to "HIGH HEAT" or "LOW HEAT", the THERMOSTAT is out of function.

FRESH AIR VENTILATION



VENTILATION LEVER

This is usually kept in the closed position and use only when clearing smoke and/or odors from the room. When the ventilation lever is pushed to "CLOSE", the fresh air ventilation is closed; when the ventilation lever is pushed to "OPEN", the fresh air ventilation is opened. Note: There is a little difference from the operation method between the different models. For some models, when the ventilation lever is pushed forward, the fresh air ventilation is closed; when it is pulled outward, the fresh air ventilation is opened.

Note

- & The VENTILATION LEVER should normally be kept in the CLOSED position during cooling for maximum cooling effect. The "OPEN" position is used only for ventilation.

CARE AND MAINTENANCE

CAUTION

To avoid the possibility of personal injury, be sure to disconnect power to the unit before servicing and/or cleaning.



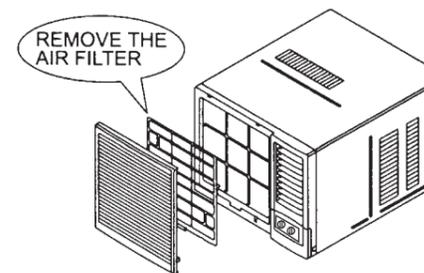
Do Not use gasoline, benzene, thinner or any other chemicals, or any liquid insecticide on the air conditioner, as these substances may cause flaking off of the paint, cracking or deformation of plastic parts.



Never attempt to clean the unit by pouring water directly over any of the surface areas, as this will cause deterioration of electrical components and wiring insulation.

CLEANING THE AIR FILTER

If the air filter becomes clogged with dust, air flow is obstructed and reduces cooling efficiency. The air filter should be cleaned every two weeks.



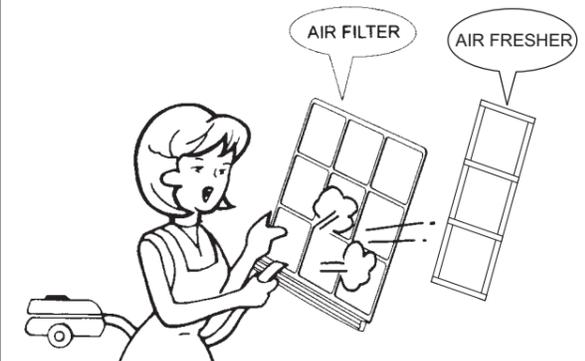
1. Removal of Air Filter

See INSTALLATION , Step 1, on Page 14.

2. Cleaning of Air Filter

- 1) Remove the dust clogged in the filter by tapping it or vacuum clean it.
- 2) Wash the filter well with lukewarm water or a neutral cleaning agent.

3. Cleaning of Air Fresher



1) The air fresher is fixed on the backside of the air filter, clean it together with the air filter.

2) Rinse the filter and fresher well using clean water. Allow timer to dry it completely.

4. Attaching the Air Filter

See INSTALLATION INSTRUCTION, Step 5, on Page 15.

Note

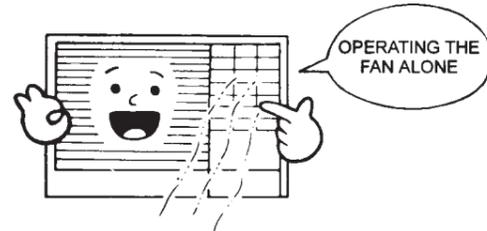
Never use hot water over 40°C(104°F) to clean the air filter and air fresher.
Never attempt to operate the unit without the air filter.

FRONT PANEL

& Dust may accumulate on the front panel, use soft wet cloth with a neutral cleaning agent to wipe it.

& Never use water over 50°C, alcohol, gasoline, acid, solvent or brush to clean the front panel as this will damage the surface of the part.

End-of-Season Care



1. Operating the fan alone for half a day to dry out the inside of the unit.
2. Turn off power and disconnect the power supply.

In-Season Care



See POINTS FOR ATTENTION WHEN OPERATING on page 3.

TROUBLESHOOTING GUIDE

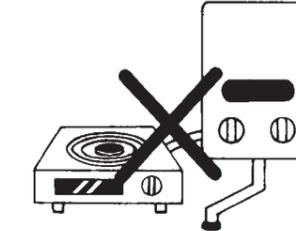
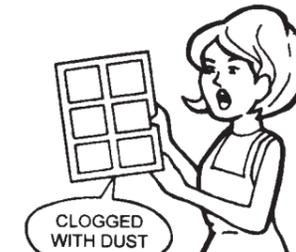
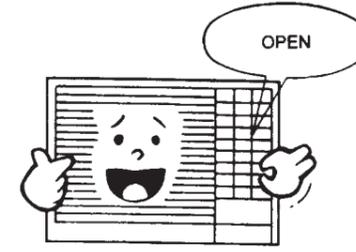
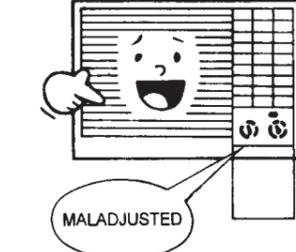
Poor Cooling Though Air Flows Out Normally



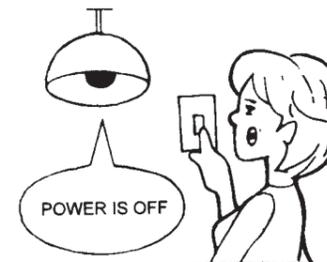
Outdoor side air outlet or inlet is blocked.



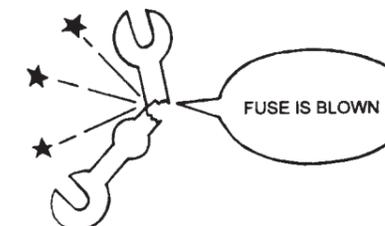
Outdoor side temperature is abnormally high due to application of direct sunlight or heat from some other source.

 <p>Door and/or windows are open.</p>	 <p>Water heater or cooking stove is used in the room.</p>
 <p>There are too many peoples in the room.</p>	 <p>Air filter is clogged with dust.</p>
 <p>Ventilation lever is set at "OPEN".</p>	 <p>Thermostat is not adjusted correctly.</p>

No Air Flow



See if power is cut off.

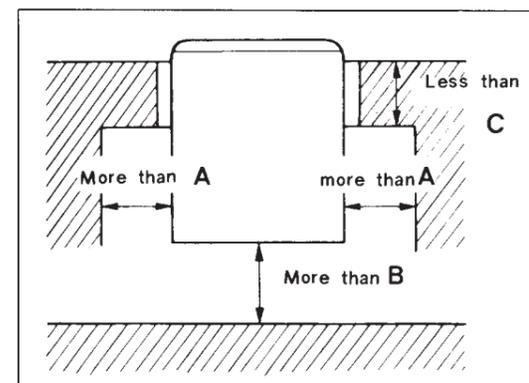
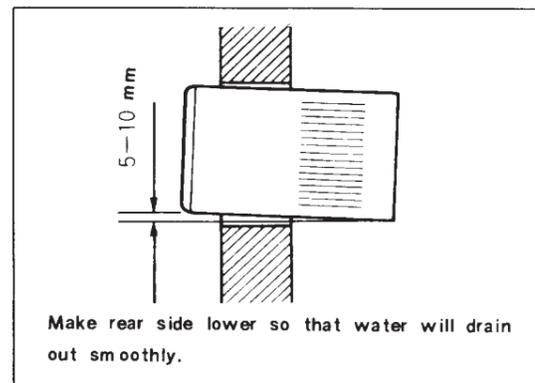
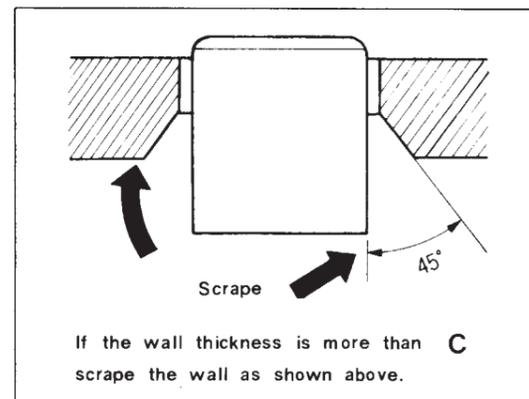
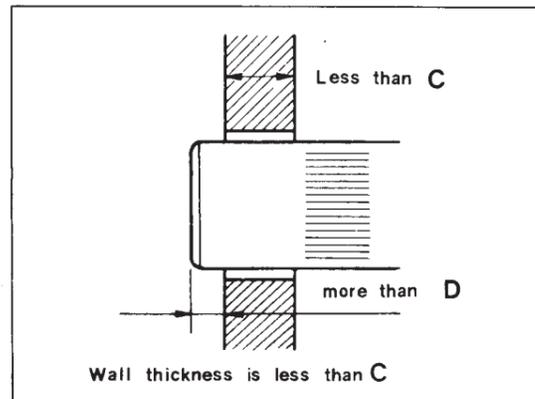


See if fuse is blown.

INSTALLATION

& Select The Best Location

- ☞ Install the unit at a place having sufficient strength to support the unit securely.
- ☞ For maximum efficiency, install the air conditioner on a side of a house or building which favors more shade than direct sunlight.
- ☞ Provide sufficient clearance or space around the air inlet and air outlet so that air flow will not be obstructed, following figures give detailed requirements.
- ☞ Only trained and qualified service personnel should install, repair or service air conditioning equipment. Users should not install the air conditioner by themselves.



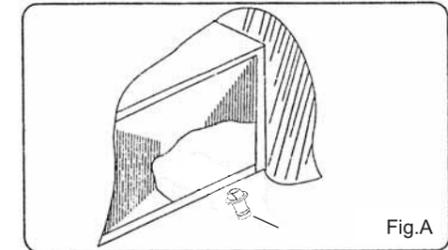
Model Size(mm)	Less than 9000Btu/h	More than 10000Btu/h
	A	400
B	500	500
C	170	210
D	50	60

The Treatment of Condensed Water

To meet different requirement of different type of air conditioner, there are two kinds of methods for your choice to treat the condensed water.

For Cooling Only Models:

1. If no need to drain off water, seal the drain hole at the bottom of the cabinet with a rubber stopper. This will increase efficiency, but the noise might be louder.
2. If need to drain off water, install the drain plug and connect with drain hose. The drain hose is available in local market (see Fig.A).

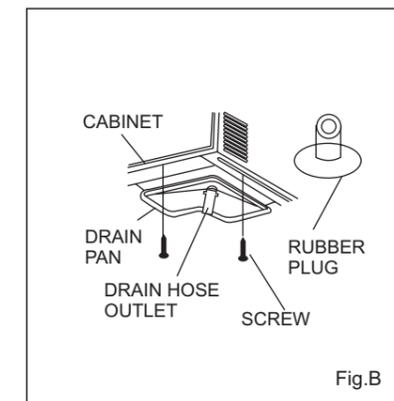


For Cooling and Heating Models:

1. Install the drain plug and connect with drain hose. The drain hose is available in local market (see Fig. A)

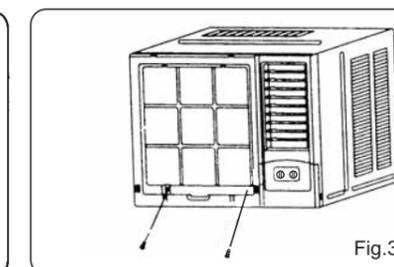
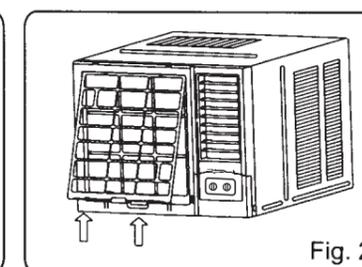
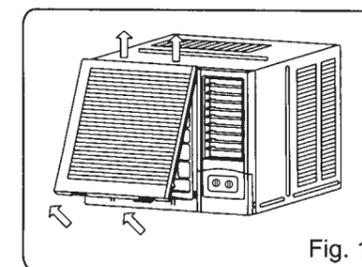
Another way to drain off water:

1. Install the drain pan over the area of the cabinet where you removed the plug, and secure with 2 screws provided.
2. Connect the drain hose to the outlet located at the bottom of the drain pan. You can purchase the drain hose or tubing locally to satisfy your particular needs (Drain hose is not supplied)(see Fig.B) .



Installation Step

Step 1. Remove the front panel and the air filter.



1. Hold the slot under the front panel, then uplift it onwards, and remove the front panel later. (see Fig.1)
2. Pinch the handle under the air filter and make the air filter arched, remove it from the slot from underside to upside. (see Fig.2)

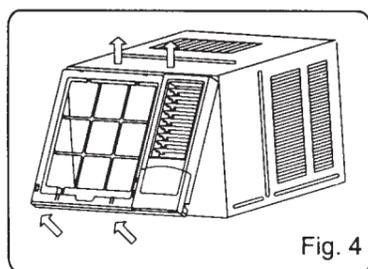


Fig. 4

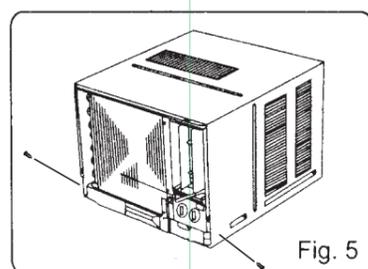


Fig. 5

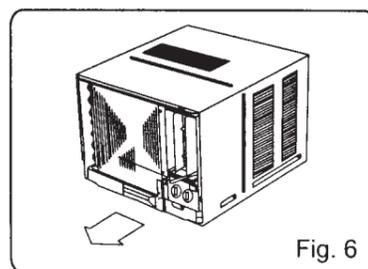


Fig. 6

Step 2. Remove the frame.

1. Remove the two fixed screws from the frame. (see Fig.3)
2. Grasp the left corner in the frame's underside, the loosen the frame. (see Fig.4)

Step 3. Installation

1. Remove the screws fix the chassis-fixing board and cabinet. some Models have two more screws on the back of the cabinet. (see Fig.5)
2. Grasp the handle on the chassis and carefully slide the air conditioner out of the cabinet. (see Fig.6)
3. When need to drain off water, in tall the drain plug on the Chassis board. Then fix the cabinet on the supporter (provide for yourself or contact the dealer)(see Fig.7).
4. Push the unit chassis into the cabinet. (see Fig.8)
5. Fix the chassis and cabinet.. (see Fig.5)

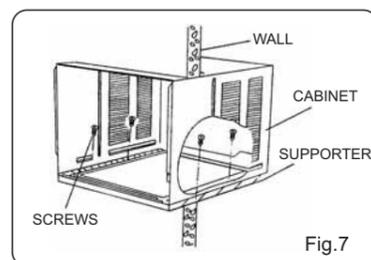


Fig.7

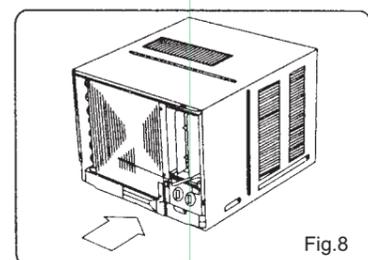


Fig.8

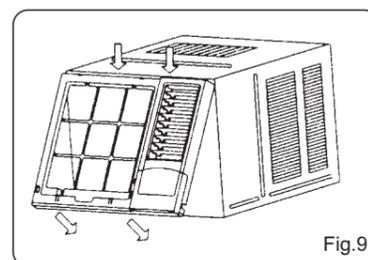


Fig.9

Step 4. Install the frame

1. Install the frame. (see Fig.9)
2. Fix the screws on the frame. (see Fig.3)

Step 5. Install the front panel and the air filter.

1. Install the air filter into the frame's slot from upside to underside. (see Fig.2)
2. Hang the front panel on the frame's buckle, then press the front panel into the frame's slot until hear a click. (see Fig.10)

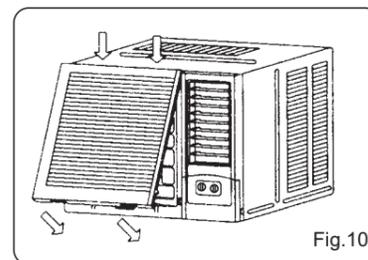


Fig.10

SPECIFICATIONS

MODEL (Btu/h)	BODY DIMENSION(mm) (W X H X D)	WIRING SIZE (mm ²)
5000~6000	445X320X400	3*1.0
7000~9000	450X350X540	3*1.0
	520X340X560	
10000~12000	560X400X650	3*1.0
15000~16000	660X435X640	3*1.5
18000~28000	660X430X770	3*2.5