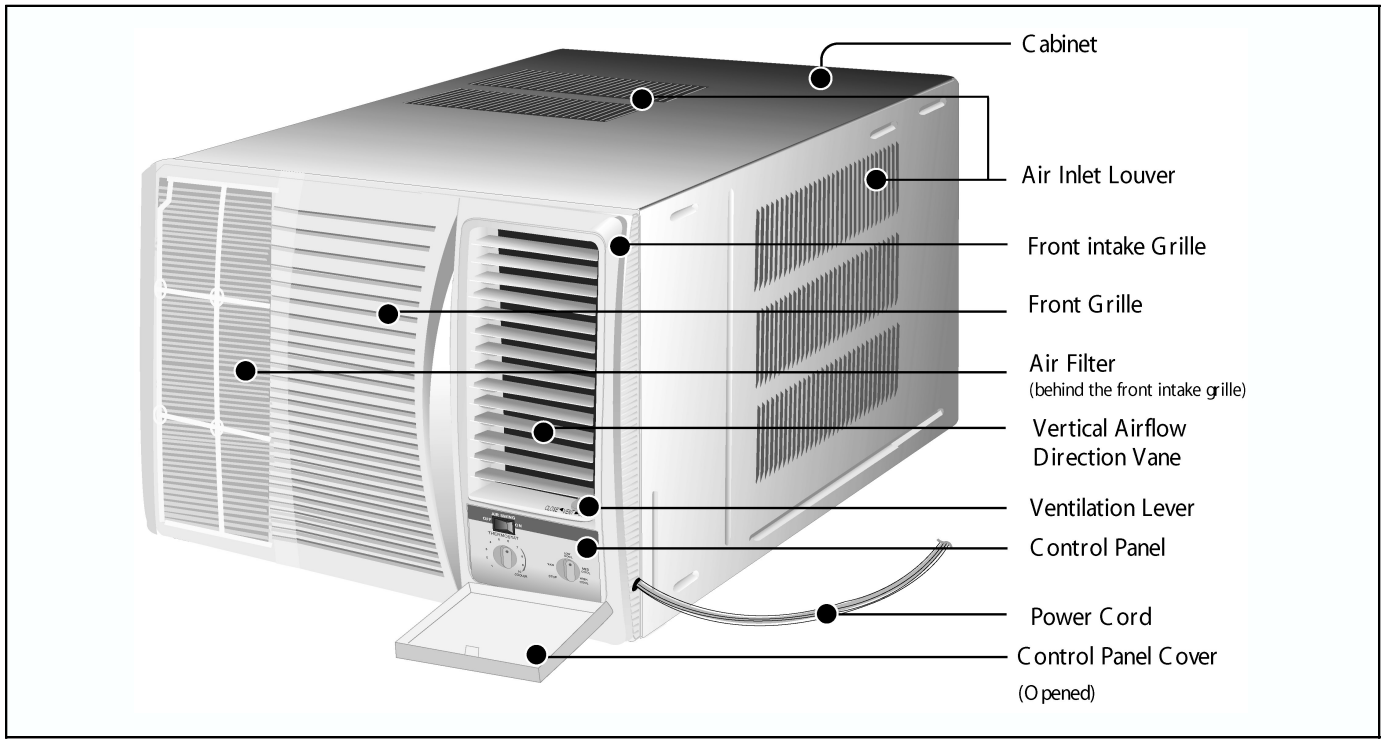
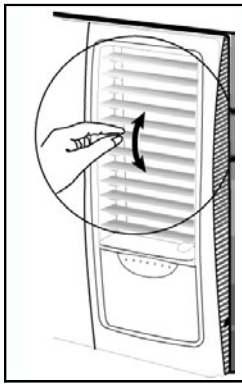
9 Operating Instructions

9.1. CW-C170KR, CW-C200KR, & CW-C240KR (Cooling only).

9.1.1. Parts Identification.



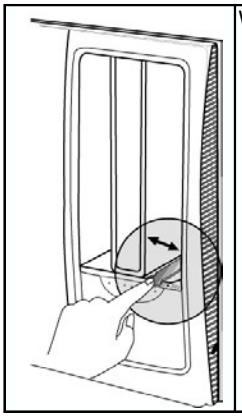
9.1.1.1. Vertical Airflow Direction Vane.



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.

9.1.1.2. Ventilation Lever.



When the slide lever is in the:

- "OPEN" position, the ventilation door opens to allow air, smoke or odours to be expelled from the room.
- "CLOSE" position, the ventilation door is closed and the air will be circulated inside the room and conditioned.

9.1.1.3. Recommended.

Use the air conditioner under the following conditions:

- Operating temperature range.

	Indoor side		Outdoor side	
	D.B.T.	W.B.T.	D.B.T.	W.B.T.
Maximum Temperature	32℃	23℃	43℃	26℃
Minimum Temperature	21℃	15℃	21℃	15℃

D.B.T.: Dry Bulb Temperature

W.B.T.: Wet Bulb Temperature

Note: Humidity may exceed 90%.

– Continuous operation at over 90% high humidity may create condensation and result in water drops on the intake and outlet vanes.

9.1.2. How to Operate.

(1) Open the Control Panel Cover.

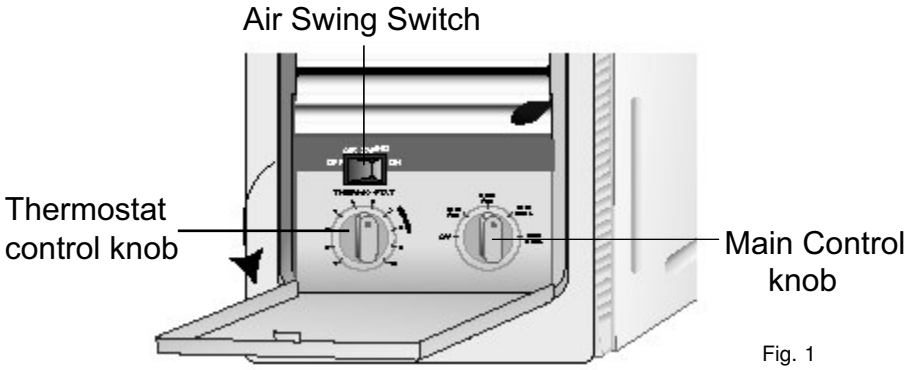


Fig. 1

(2) Power Supply

Switch off the breaker and set the Main Control Knob to the OFF position before connecting the power plug cord to an independent power supply.

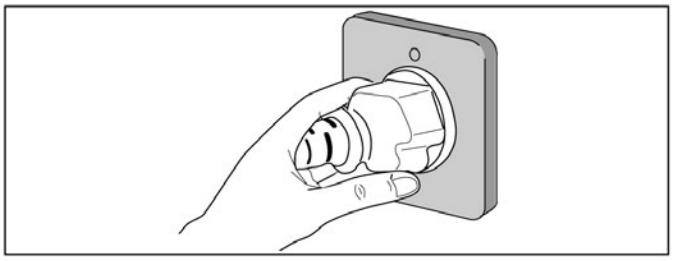


Fig. 2

(3) Main Control Knob

Set the Main Control Knob to either LOW COOL or HIGH COOL as desired, FAN setting operates the fan only.

Caution: If the Main Control Knob is turned off or changed to a fan setting from a cooling operation setting, WAIT at least 3 minutes before resetting to cooling operation.

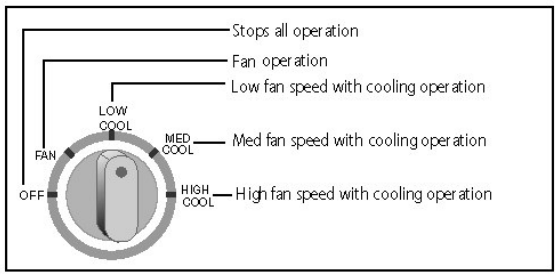


Fig. 3

(4) Thermostat Control Knob

Turn the Thermostat Control Knob as shown in Fig. 4. Usually “6” ~ “7” is the recommended setting position.

Note: When the Thermostat Control Knob is set to “10”, moisture may freeze onto the evaporator fins and prevent effective cooling. If this happens, turn the Main Control Knob to HIGH FAN, and the Thermostat Control Knob counterclockwise. This will quickly defrost the evaporator fins so that normal cooling can be resumed.

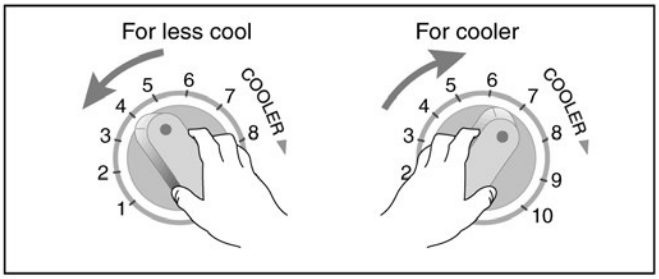


Fig.4

(5) Air Swing Switch

(Airflow direction adjustment side-to-side)

To obtain a fixed 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”.

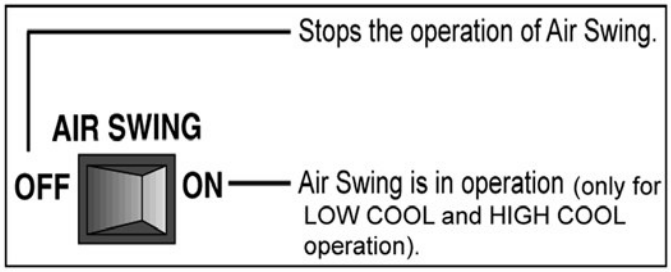
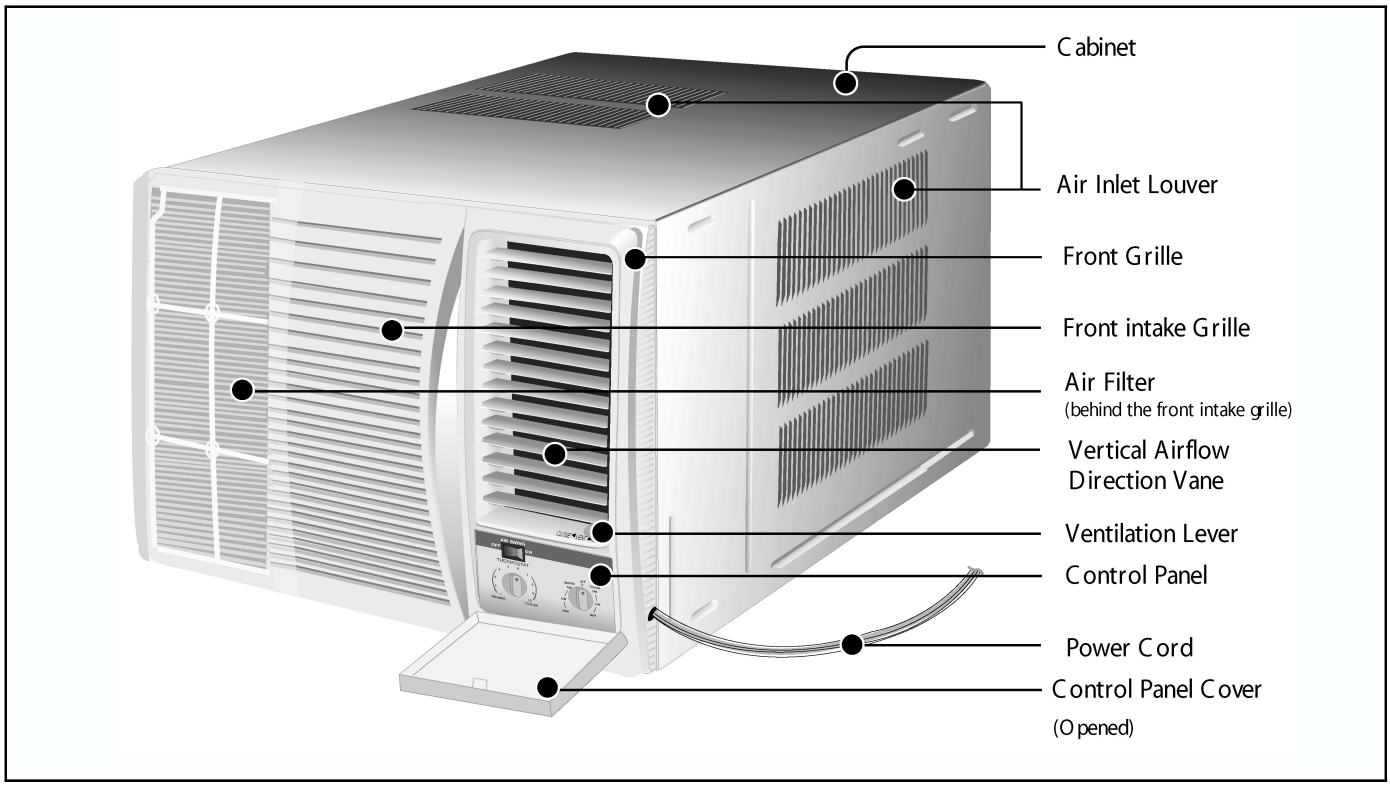


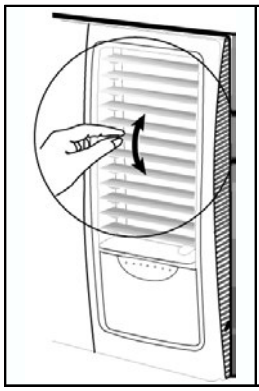
Fig. 5

9.2. CW-A170KR, CW-A200KR, & CW-A240KR (Cooling and Heating).

9.2.1. Parts Identification.



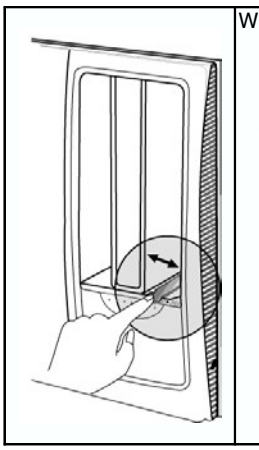
9.2.1.1. Vertical Airflow Direction Vane.



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.

9.2.1.2. Ventilation Lever.



When the slide lever is in the:

- "OPEN" position, the ventilation door opens to allow air, smoke or odours to be expelled from the room.
- "CLOSE" position, the ventilation door is closed and the air will be circulated inside the room and conditioned.

9.2.1.3. Recommended.

Use the air conditioner under the following conditions:

- Operating temperature range.

		Indoor side		Outdoor side	
		D.B.T.	W.B.T.	D.B.T.	W.B.T.
Cooling	Maximum Temperature	32℃	23℃	43℃	26℃
	Minimum Temperature	21℃	15℃	21℃	15℃
Heating	Maximum Temperature	27℃	----	21℃	15℃
	Minimum Temperature	20℃	----	-5℃	-6℃

D.B.T.: Dry Bulb Temperature

W.B.T.: Wet Bulb Temperature

Note: Humidity may exceed 90%.

– Continuous operation at humidities of over 90% may create condensation to form on the intake and outlet vanes.

9.2.2. How to Operate.

(1) Open the Control Panel Cover.

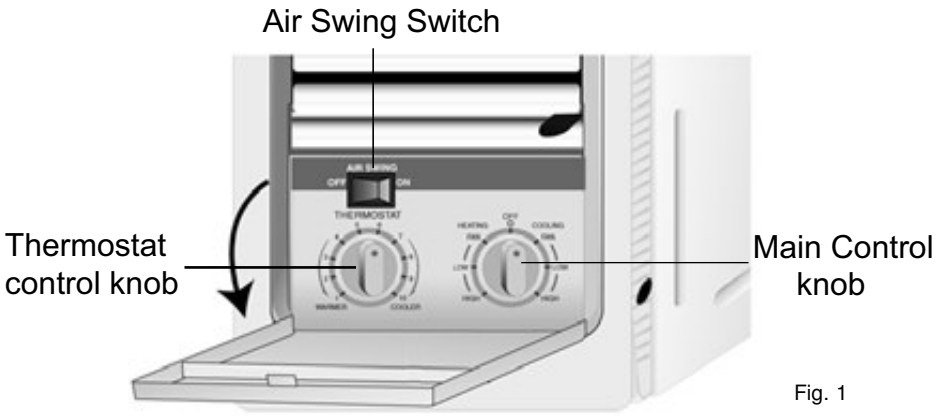


Fig. 1

(2) Power Supply

Switch off the breaker and set the Main Control Knob to the OFF position before connecting the power plug cord to an independent power supply.

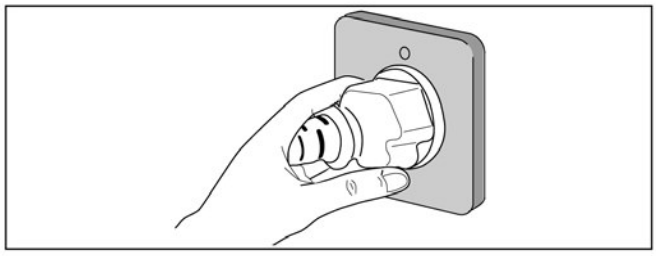


Fig. 2

(3) Main Control Knob

Set the Main Control Knob to either LOW COOLING or HIGH COOLING and LOW HEATING or HIGH HEATING as desired, FAN setting operates the fan only.

Caution: If the Main Control Knob is turned off or changed to a fan setting from a cooling or heating operation setting, WAIT at least 3 minutes before resetting to cooling or heating operation.

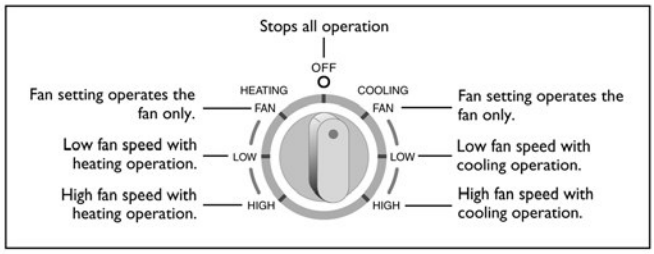


Fig. 3

(4) Thermostat Control Knob

Turn the Thermostat Control Knob as shown in Fig. 4. Usually “6” ~ “7” is the recommended setting position for cooling and “4” ~ “5” for heating.

Note: When the Thermostat Control Knob is set to “10”, moisture may freeze onto the evaporator fins and prevent effective cooling. If this happens, turn the Main Control Knob to FAN, and the Thermostat Control Knob counterclockwise. This will quickly defrost the evaporator fins so that normal cooling can be resumed.

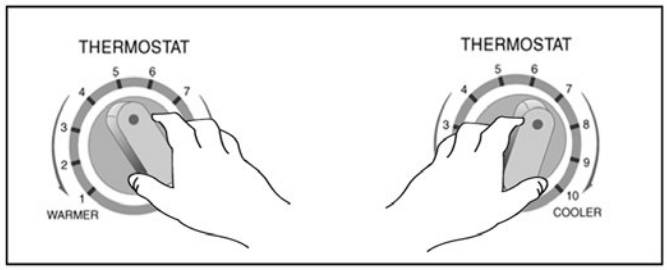


Fig.4

(5) Air Swing Switch

(Airflow direction adjustment side-to-side)

To obtain a fixed 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”.

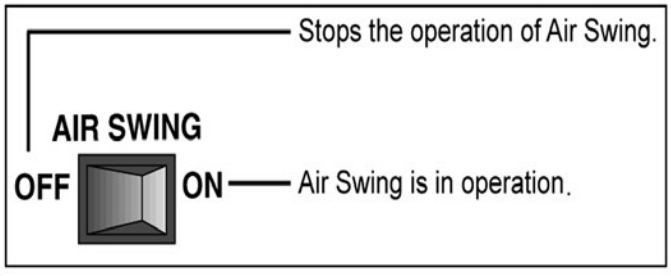


Fig. 5

10 How to Install

10.1. Before installing the air conditioner, please read the following:

10.1.1. Electrical Work.

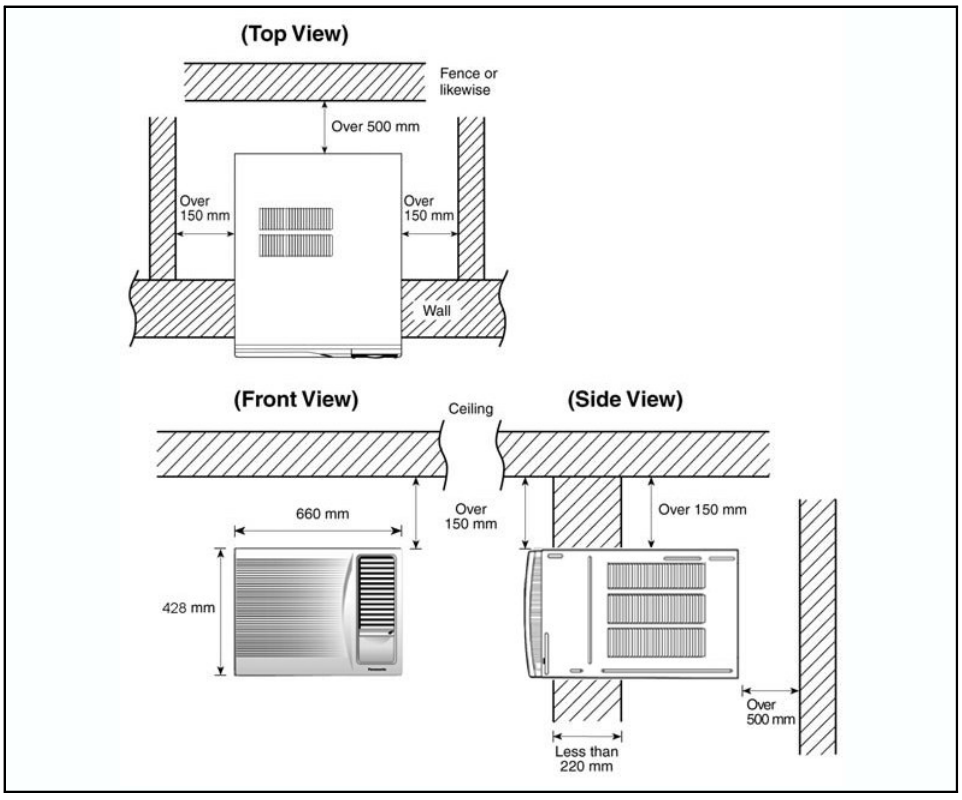
- Always use at the rated voltage and with a specific air conditioning circuit.
- Power supply point shall be the place where there is ease for the power disconnection in case of emergency.
- Some installation locations may require installation of a short-circuit breaker.
- Time delay fuse or circuit breaker rating is 16 Ampere for CW-C170KR/CW-A170KR/CW-C200KR/CW-A200KR and 20 Ampere for CW-C240KR/CW-A240KR.
- Nominal cross sectional area of power supply wire must be 3 core x 2.5 mm^2 or above.
- The power supply must be from an independent circuit.
- All electrical installations must be made in accordance with local wiring and safety regulations wherever applicable.
- There must be a double pole switch with minimum of 3 mm contact gap in the fixed installation circuit.

10.1.2. Select the Best Location.

- Install the unit at the nearest power outlet.
- The air conditioner should be installed in a dry place where there are no draughts.
- Condensation from the air conditioner must be drained into an appropriate location.
- Do not install in a location where flammable gas leaks is a possibility.
- Usage in locations where the air is salty such as coastal areas or near hot spas, or where sulphurous gas is generated, may lead to a malfunction.
- Do not install this appliance in a laundry room or other locations where water may drip from the ceiling, etc.
- Select an installation location which is rigid and strong enough to support or hold the unit and select a location for easy maintenance.

10.2. Preparation for Installation.

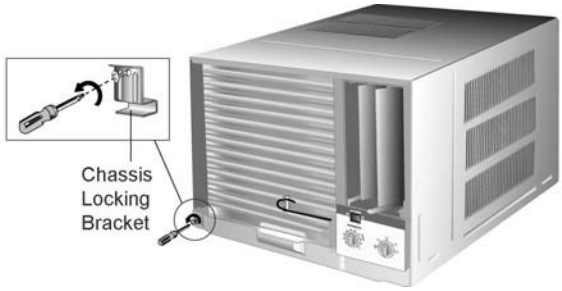
- There should not be any obstacles surrounding the unit.
- Prepare an installation hole that is only slightly bigger than the cabinet size.



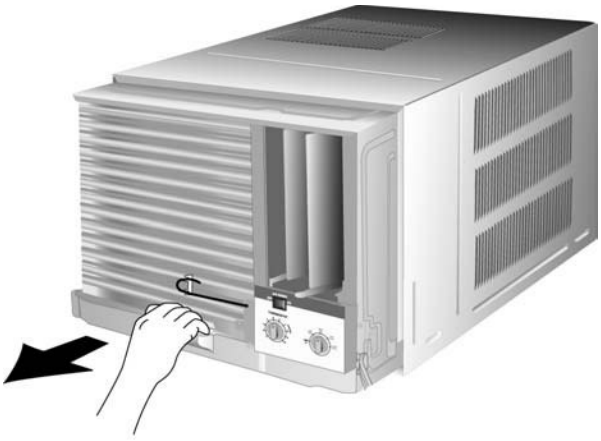
10.3. Installation Procedures.

10.3.1. Remove the Chassis Locking Bracket and screw.

- Unscrew and remove the Chassis Locking Bracket from the front of the Cabinet.

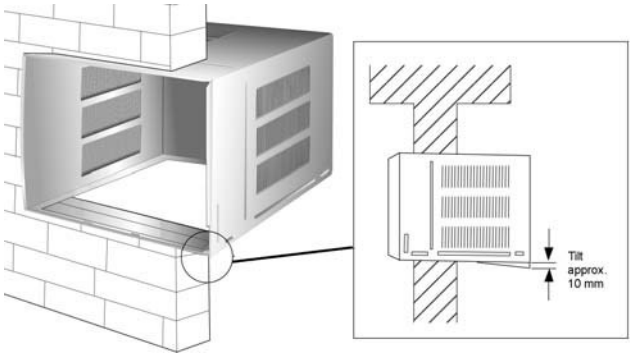


10.3.2. Slide the Chassis out from the Cabinet.

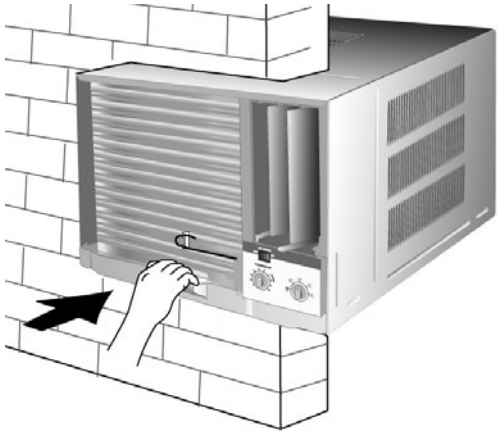


10.3.3. Place Cabinet into the installation hole, then secure it with wood screws or nails.

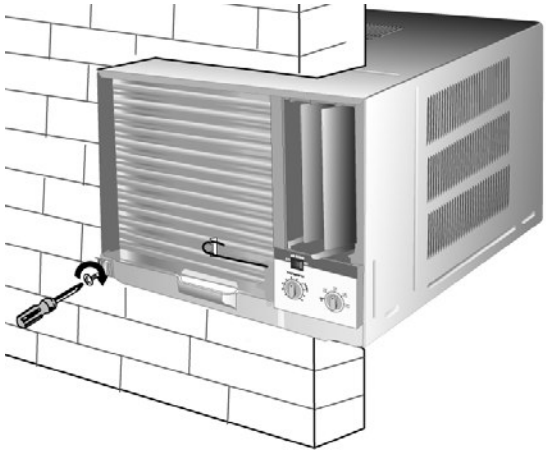
- Note: Tilt down for better drainage (max. 10 mm).



10.3.4. Slide the Chassis back into the Cabinet.

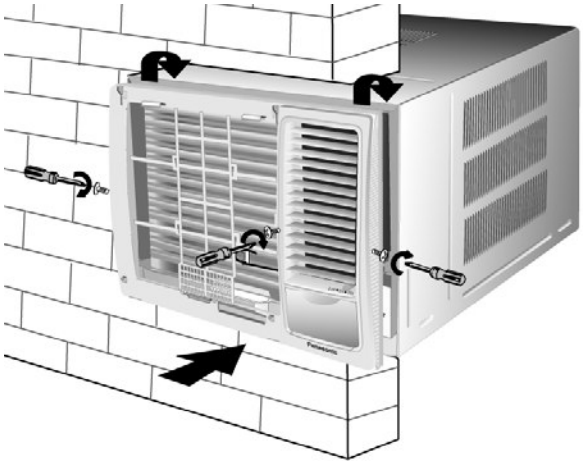


10.3.5. Lock the Chassis to the Cabinet reusing the Chassis Locking Bracket and screw.

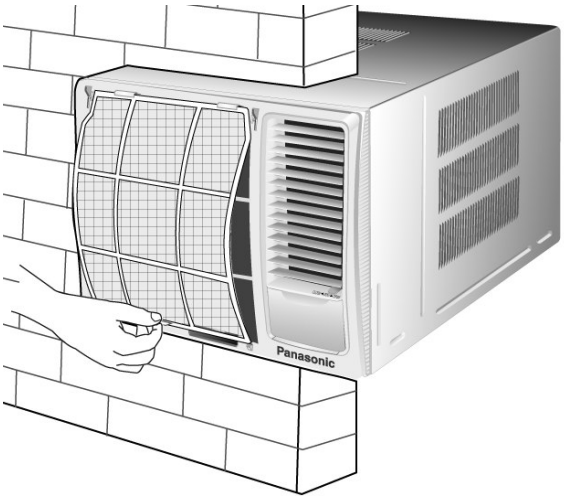


10.3.6. Attach the Front Grille to the Cabinet and fasten it with screws.

- Note: Depending upon the location of the AC outlet, route the AC cord to either the left or right side while installing the Front Grille.

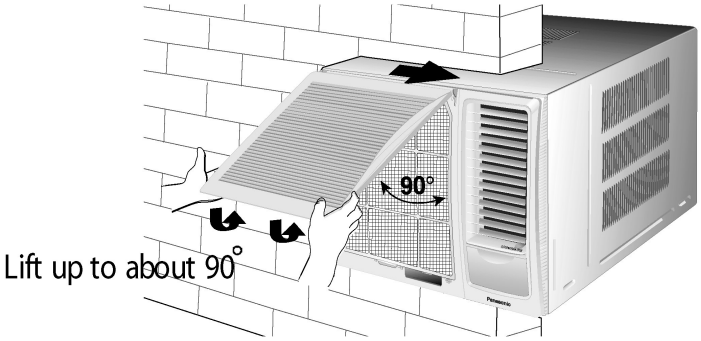


10.3.7. Insert the Air Filter.



10.3.8. Attach the Front Intake Grille.

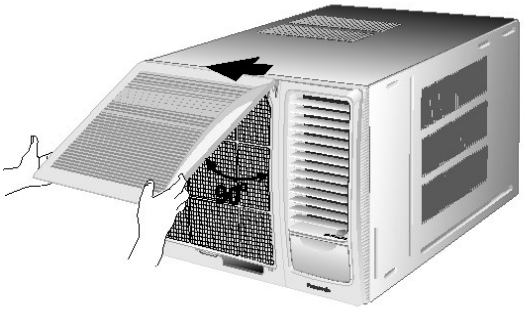
- Slide the Front Intake Grille slightly to the right to attach it, then push down to secure it.



10.4. Removal of the Front Grille.

10.4.1. Remove the Front Intake Grille.

- Raise the Front Intake Grille by approximately 90°. Slide it to the left to unhinge then pull outwards.



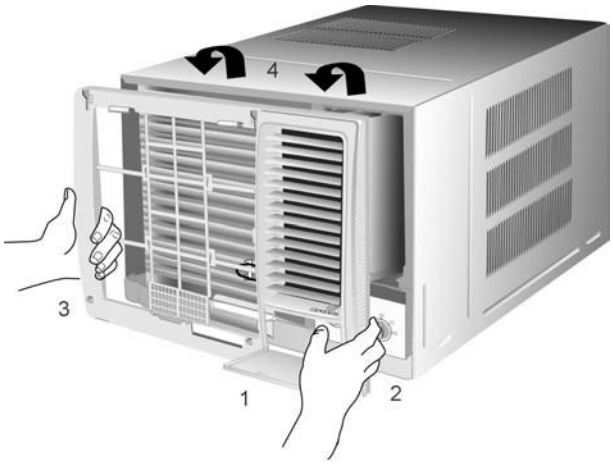
10.4.2. Remove the Air Filter.

- Lift the air filter by the holder and pull outwards.

10.4.3. Remove the Front Grille.

1. Open the Control Panel cover.

   When performing the following steps, do not pull the bottom edge of the Front Grille towards you more than 3 inches or you may damage the top tabs.
2. Press inward on the Cabinet near the bottom right side of the Front Grille while pulling the Front Grille to the right then slightly towards you to release the right tab.
3. Press inward on the Cabinet near the bottom left side of the Front Grille while pulling the Front Grille to the left then slightly towards you to release the left tab.
4. Slide the Front Grille upwards to release the two top tabs.

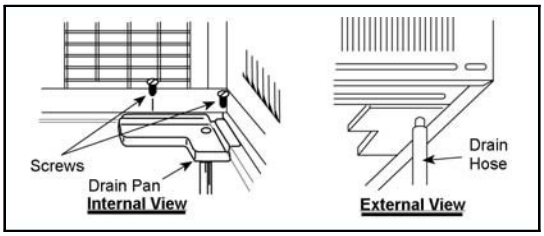


10.5. Condensed Water Drainage.

This air conditioner employs a “Slinger-Up System” which is designed to splash the condensed water on the condenser coil for maximum cooling efficiency, thus producing a splashing sound. If the splashing sound annoys you, you can provide an outside drainage by using the following procedure which may, however, cause a small loss of performance.

Note: If the unit is installed at coastal area, drainage of condensed water is recommended to prevent the condenser being corroded easily.

1. Slide the Chassis out from the Cabinet.
2. Remove the rubber plug from the Base Pan (If any).
3. Install the Drain Pan at the right corner of the Cabinet with 2 screws.



4. Connect the drain hose to the outlet of Drain Pan bottom.
5. Slide the Chassis back into the Cabinet.

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