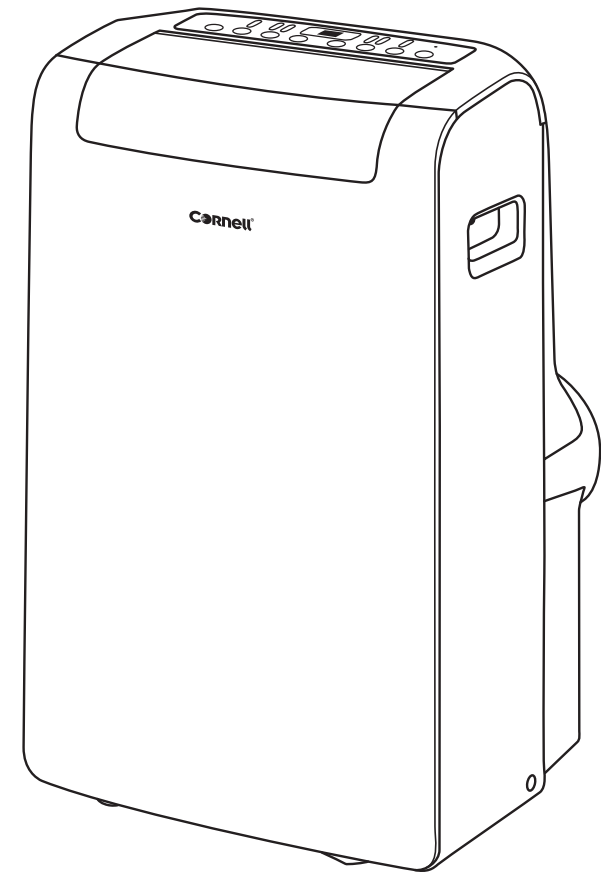


# CORnell®

## User Manual



# CORnell®

Marketed by:

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## Portable Air-Cond

**CPA-PH9000**  
**CPA-PH12000**

## SAFETY PRECAUTIONS

### SAFETY RULES

To prevent injury to the user or other people and damage to property, the following instructions must be followed. Incorrect operation due to negligence may cause harm or damage.

### ALWAYS DO THIS

1. Your air conditioner should be used in such a way that it is protected from moisture, e.g. condensation, splashed water, etc. Do not place or store your air conditioner where it can fall or be pulled into water or any other liquid. Unplug immediately.
2. Always transport your air conditioner in a vertical position and stand on a stable, level surface during use.
3. Turn off the appliance when not in use.
4. Always contact a qualified person to carry out repairs. If the supply cord is damaged, it must be repaired by a qualified person.
5. Keep an air path at least 30cm all round the unit from walls, furniture and curtains.
6. If the air conditioner is knocked over during use, turn off the unit and unplug from the main supply immediately

### NEVER DO THIS

1. Do not operate your air conditioner in a wet room, such as bathroom or laundry room.
2. Do not touch the unit with wet or damp hands or when barefoot.
3. Do not press the buttons on the control panel with anything other than your fingers.
4. Do not remove any fixed covers. Never use this appliance if it is not working properly, or if it has been dropped or damaged.
5. Never use the plug to start or stop the unit.
6. Always use the switch on the control panel.
7. Do not cover or obstruct the inlet or outlet grilles.
8. Do not use hazardous chemicals to clean or come into contact with the unit. Do not use the unit in the presence of inflammable substances or vapour such as alcohol, insecticides, petrol, etc.
9. Do not allow children to operate the unit unsupervised.
10. Do not use the unit for purposes other than those described in this manual.

### ENERGY SAVE

1. Use the unit in recommended room size.
2. Locate the unit where furniture cannot obstruct the air flow.
3. Keep blinds/curtains closed during the sunniest part of the day.
4. Keep the filter clean.
5. Keep doors and windows closed to keep cool air in and warm out.

## SAFETY PRECAUTIONS

### OPERATING CONDITION

- The air conditioner must be operated within the temperature range indicated below:

MODE	ROOM TEMPERATURE
COOL	17°C(62°F) - 35°C(95°F)
DRY	13°C(55°F) - 30°C(88°F)

### SUGGESTED TOOLS FOR WINDOW KIT INSTALLATION

1. Screwdriver (medium size)
2. Tape measure or ruler
3. Knife or scissors
4. Saw (in the event that the window kit needs to be cut down in size because the window is too narrow for direct installation)

### WARNING

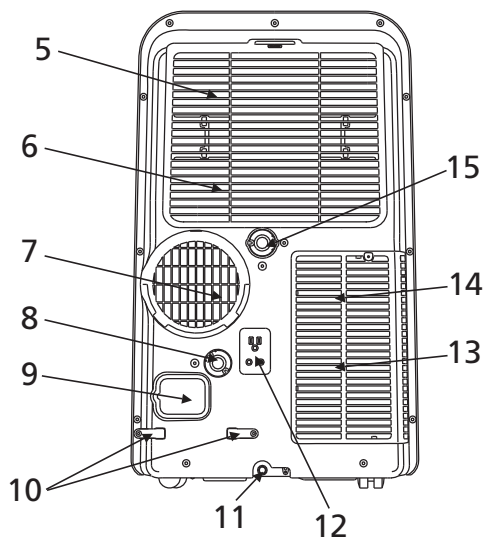
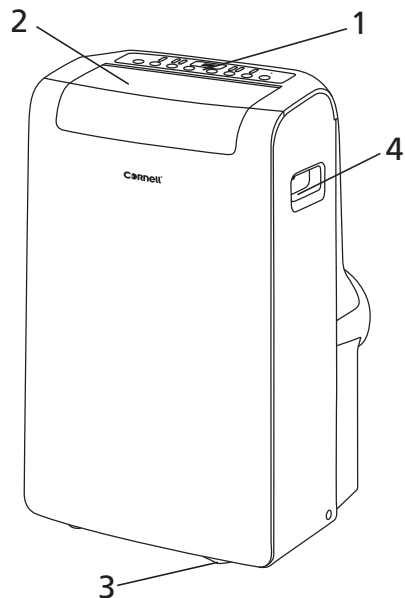
#### For your safety

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Avoid fire hazard or electric shock. Do not use an extension cord or an adaptor plug. Do not remove any prong from the power cord.

#### Electrical Information

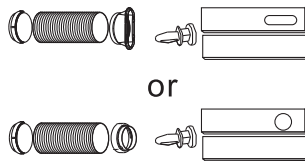




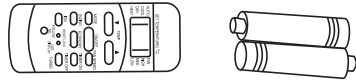
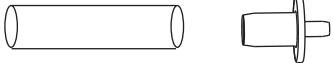
- Ensure that the electrical service is adequate for the model you have chosen. This information can be found on the serial plate, which is located on the side of the cabinet and behind the grille.
- Ensure that the air conditioner is properly grounded. To minimize shock & fire hazards, proper grounding is important. The power cord is equipped with a three-prong grounding plug for protection against shock hazards.
- Your air conditioner must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle.
- Ensure the receptacle is accessible after the unit installation.

## PARTS IDENTIFICATION



## PARTS IDENTIFICATION

### ACCESSORIES

PARTS	PARTS NAME	QUANTITY
	Exhaust hose and Apaptor and Adaptor B (flat mouth or round mouth: depending on models) Window Slider Kit and bolt	1 set
	Wall Exhaust Adaptor A*	1 pc
	Adaptor B (round mouth)*	1 pc
	Expansion Plug and wooden screw*	4 pc
	Foam seal	3 pc
	Remote Controller and Battery (For remote control models only)	1 pc
	Drain hose and drain hose adaptor*	1 pc

**NOTE: \*** Optional parts, some models without.

- Check all the accessories are included in the package and please refer to the installation instructions for their usage.

**NOTE: All the illustrations in this manual are for explanatory purposes only. Your air conditioner may be slightly different. The actual shape shall prevail.**

## FEATURES

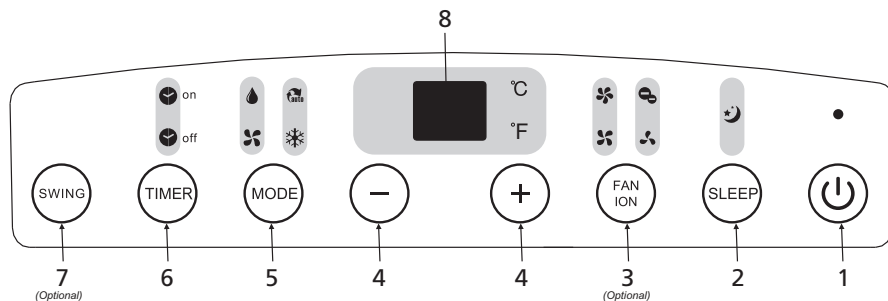
### ELECTRONIC CONTROL PANEL OPERATING INSTRUCTIONS

Before you begin, thoroughly familiarize yourself with the control panel and remote controller and all its functions, then follow the symbol for the functions you desire.

The unit can be controlled by the unit control panel alone or with the remote controller.

**NOTE:** This manual does not include Remote Controller Operations, see the <<Remote Controller Instruction>> packed with the unit for details.

### OPERATION PANEL



#### 1. POWER BUTTON

Power switch on/off.

#### 2. SLEEP/ECO BUTTON

Used to initiate the SLEEP/ECO operation.

#### 3. FAN/ION BUTTON (*ION is optional*)

Control the fan speed. Press to selecting the fan speed in four steps - LOW, MED, HI and AUTO. The fan speed indicator light illuminates under different fan settings except AUTO speed. When select AUTO fan speed, all the fan indicator lights turn dark.

**NOTE:** Press this button for 3 seconds to activate ION feature. The ion generator is energized and will help to remove pollen and impurities from the air, and trap them in the filter. Press it for 3 seconds again to deactivate the ION feature.

#### 4. UP ( + ) AND DOWN ( - ) BUTTON

Adjusts (increasing/decreasing) temperature settings in 1°C/2°F (or 1°F) increments in a range of 17°C/62°F to 30°C/88°F (or 86°F) or the TIMER setting in a range of 0~24hrs.

**NOTE:** The control is capable of displaying temperature in degrees Fahrenheit or degrees Celsius. To convert from one to the other, press and hold the Up and Down buttons at the same time, for 3 seconds.

## FEATURES

### 5. MODE SELECT BUTTON

Selects the appropriate operating mode. Each time you press the button, a mode is selected in a sequence that goes from AUTO, COOL, DRY, FAN and HEAT (cooling only models without). The mode indicator light illuminates under the different modesettings.

### 6. TIMER BUTTON

Activates the AUTO ON start time and AUTO OFF stop time program, in conjunction with the + & - buttons. The timer on/off indicator light illuminates under the timer on/off settings.

### 7. SWING BUTTON (*Applicable to the models with auto swing feature only*)

Activates the Auto swing feature. When the operation is ON, press the SWING button can stop the louver at the desired angle.

### 8. LED DISPLAY

Shows the set temperature in “°C” O or “°F” ( F no display) and the Auto-timer settings. While on DRY and FAN modes, it shows the room temperature.

### ERROR AND PROTECTION CODES:

<b>E1</b>	Room temperature sensor error	Unplug the unit and plug it back in. If error repeats, call for service.
<b>E2</b>	Evaporator temperature sensor error	Unplug the unit and plug it back in. If error repeats, call for service.
<b>E3</b>	Condenser temperature sensor error	Unplug the unit and plug it back in. If error repeats, call for service ( <i>on some models</i> ).
<b>E4</b>	Display panel communication error	Unplug the unit and plug it back in. If error repeats, call for service.
<b>P1</b>	Bottom tray is full	Connect the drainage hose and drain the collected water away.  If protection code is still displayed, call for service.

# OPERATING INSTRUCTIONS

## COOL OPERATION

- Press the "MODE" button until the "COOL" indicator light comes on.
- Press the ADJUST buttons "+" or "-" to select your desired room temperature. The temperature can be set within a range of 17°C - 30°C/62°F-88°F (or 86°F).
- Press the "FAN SPEED" button to choose the fan speed.

## DRY OPERATION

- Press the "MODE" button until the "DRY" indicator light comes on.
- Under this mode, you cannot select a fan speed or adjust the temperature. The fan motor operates at LOW speed.
- Keep windows and doors closed for the best dehumidifying effect.
- Do not put the duct to window.

## AUTO OPERATION

- When you set the air conditioner in AUTO mode, it will automatically select cooling, or fan only operation depending on what temperature you have selected and the room temperature.
- The air conditioner will control the room temperature automatically round the temperature point set by you.
- Under AUTO mode, you can not select the fan speed.

**NOTE:** Under AUTO mode, both AUTO and actual operation modes' indicator light will illuminate.

## FAN OPERATION

- Press the "MODE" button until the "FAN " indicator light comes on.
- Press the "FAN SPEED" button to choose the fan speed. The temperature cannot be adjusted.
- Do not put the duct to window.

## SLEEP/ECO OPERATION

Press this button, the selected temperature will increase(cooling) or decrease(heating) by 1°C/2°F 30 minutes. The temperature will then increase (cooling) or decrease (heating) by another 1°C/2°F after an additional 30 minutes. This new temperature will be maintained for 7 hours before it returns to the originally selected temperature. This ends the Sleep/Eco mode and the unit will continue to operate as originally programmed.

This feature is not available under FAN or DRY mode.

# OPERATING INSTRUCTIONS

## TIMER OPERATION

When the unit is on, pressing the Timer button will activate the Auto-off stop program, the TIMER OFF indicator light illuminates. Press the UP or down button to select the desired time. Press the TIMER button again within 5 seconds, the Auto-on start program is activated. And the TIMER ON indicator light illuminates. Press the up or down button to select the desired Auto-on start time.

- With the unit powered off press the Timer button to activate the Auto-on start program, press it again within five seconds will reactivate the Auto-off stop program.
- Press or hold the UP or DOWN button to change the Auto time by 0.5 hour increments, up to 10 hours, then at 1 hour increments up to 24 hours. The control will count down the time remaining until start.
- The system will automatically revert back to display the previous temperature setting if there is no operation within a five seconds period.
- Turning the unit ON or OFF at any time or adjusting the timer setting to 0.0 will cancel the Auto Start/Stop timer program.
- When the malfunction (E1,E2,E3 or E4) occurs, the Auto Start/Stop timed program will also be cancelled.

## OTHER FEATURES

### AUTO-RESTART *(on some models)*

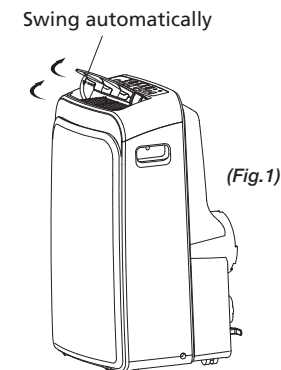
- If the unit breaks off unexpectedly due to the power cut, it will restart with the previous function setting automatically when the power resumes.

### Wait 3 minutes before resuming operation

- After the unit has stopped, it can not be restarted operation in the first 3 minutes. This is to protect the unit. Operation will automatically start after 3 minutes.

## AIR FLOW DIRECTION ADJUSTMENT

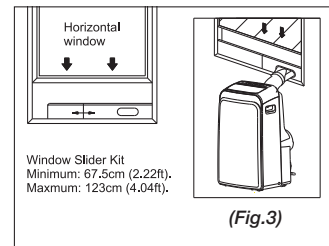
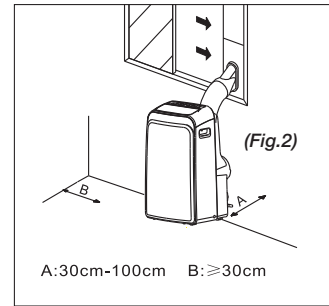
- The louver can be adjusted automatically.
- Adjust the air flow direction automatically (Fig.1):
- When the Power is ON, the louver opens fully. Press the SWING button on the panel or remote controller to initiate the Auto swing feature.
- The louver will swing up and down automatically.
- Do not adjust the louver manually.



# INSTALLATION INSTRUCTIONS

## LOCATION

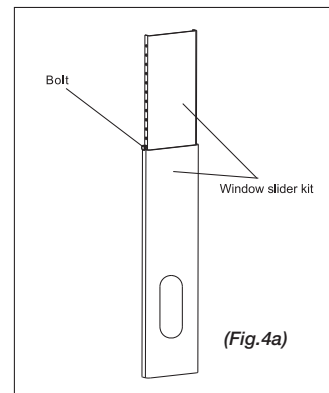
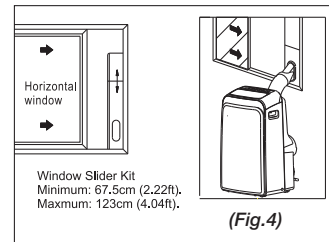
- The air conditioner should be placed on a firm foundation to minimize noise and vibration. For safe and secure positioning, place the unit on a smooth, level floor strong enough to support the unit.
- The unit has casters to aid placement, but it should only be rolled on smooth, flat surfaces. Use caution when rolling on carpet surfaces. Do not attempt to roll the unit over objects.
- The unit must be placed within reach of a properly rated grounded socket.
- Never place any obstacles around the air inlet or outlet of the unit.
- Allow 30cm to 100cm of space from the wall with for efficient air-conditioning. (Fig.2)



## WINDOW SLIDER KIT INSTALLATION

- Your window slider kit has been designed to fit most standard Vertical and horizontal window applications, however, it may be necessary for you to improvise/modify some aspects of the installation procedures for certain types of window. Please refer to Fig. 3 & Fig.4 for minimum and maximum window openings. Window slider kit can be fixed with a bolt (see Fig.4a).

**NOTE:** If the window opening is less than the mentioned minimum length of the window slider kit, cut that one with a hole in it short to fit for the window opening. Never cut a hole in the window slider kit.

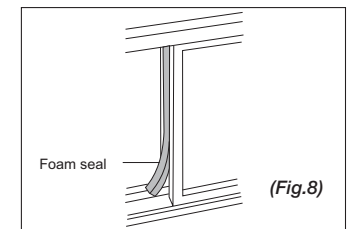
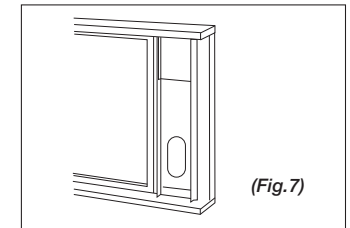
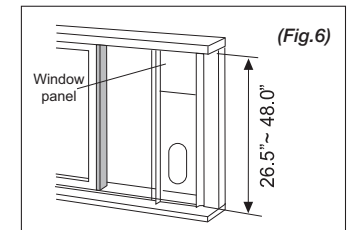
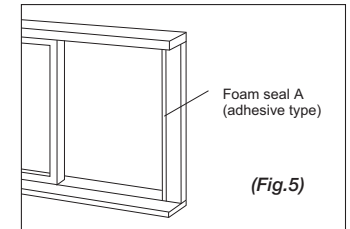


# INSTALLATION INSTRUCTIONS

## INSTALLATION IN A SLIDING SASH WINDOW

1. Cut the foam seal (adhesive type) to the proper length and attach it to the window frame. (See Fig.5).
2. Attach the window slider kit to the window stool. Adjust the length of the window slider kit according to the width of window, shorten the adjustable window kit if the width of window is less than 26.5 inches. Open the window sash and place the window slider kit on the window stool. (See Fig.6).
3. Cut the foam seal(adhesive type) to the proper length and attach it on the top of the window. (See Fig.7).
4. Close the sliding sash securely against the window.
5. Cut the foam seal to an appropriate length and seal the open gap between the top window sash and outer window sash. (See Fig.8).

**NOTE:** All the illustrations in this manual are for explanatory purposes only. Your unit may be slightly different. The actual shape shall prevail.





# INSTALLATION INSTRUCTIONS

## EXHAUST HOSE INSTALLATION:

The exhaust hose and adaptor must be installed or removed in accordance with the usage mode.

COOL or AUTO mode	Install
FAN, DEHUMIDIFY or HEAT (electrical heat type) mode	Removed

1. Install the adaptor B and adaptor I onto the exhaust hose as shown in (Fig.9a or Fig.9b). Refer to the previous pages for window kit installation.
2. Reinsert the hook of the Exhaust hose into the hole seat of the air outlet and slide down the Exhaust hose along the arrow direction (See Fig.10) for installation.

## THE EXHAUST HOSE CAN BE INSTALLED INTO THE WALL

(Not applicable to the units without adaptor A, expansion plugs and wooden screws of accessories).

1. Prepare a hole in the wall. Install the wall Exhaust adaptor A onto the wall(outside) by using 4 expansion plugs and wooden screws, be sure to fix thoroughly. (See Fig.11)

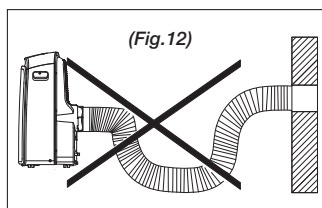
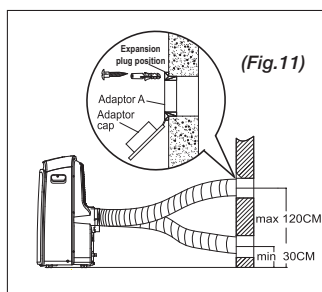
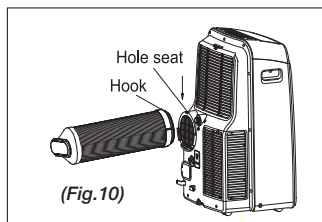
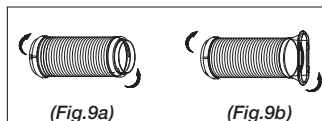
2. Attach the Exhaust hose to wall Exhaust adaptor A.

**Note:** Cover the hole using the adaptor cap when not in use.

- The exhaust hose can be compressed or extended moderately according to the installation requirement, but it is desirable to keep the hose length to a minimum.

**IMPORTANT: DO NOT OVER BEND THE EXHAUST HOSE (SEE Fig.12)**

**CAUTION:** Ensure that there is no obstacle around the air outlet of the exhaust hose (in the range of 500mm) in order for the exhaust system to work properly



# INSTALLATION INSTRUCTIONS

## WATER DRAINAGE:

- During dehumidifying modes, remove the upper drainage plug from the back of the unit, install the drainage connector(5/8" universal female mender) with 3/4" hose(locally purchased). For models without drainage connector, just attach the drainage hose to the hole. Place the open end of the hose directly over the drainage area in your basement floor. Please refer to (Fig.13a).

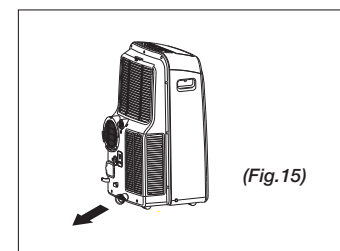
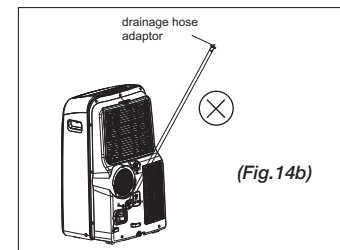
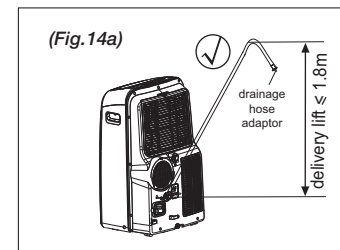
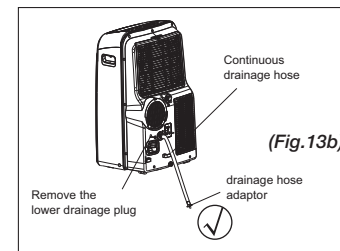
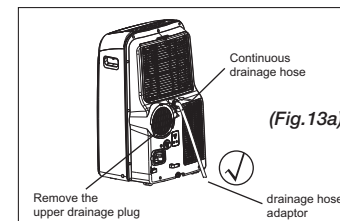
- During heating pump mode, remove the lower drainage plug from the back of the unit, install the drainage connector(5/8" universal female mender) with 3/4" hose(locally purchased). For the models without drainage connector, just attach the drainage hose to the hole. Place the open end of the hose directly over the drainage area in your basement floor. Please refer to (Fig.13b).

- Ensure that the hose is secure so there are no leaks. Direct the hose toward the drainage, making sure that there are no obstacles that will stop the water flowing. Place the end of the hose into the drainage and ensure that the end of the hose is down to let the water flow smoothly. (see Fig.13a, 13b & 14a). Do never let it up. (Fig.14b).

- When the water level of the bottom tray reaches a predetermined level, the unit beeps 8 times, the digital display area shows P1. At this time the air conditioning/dehumidification process will immediately stop. However, the fan motor will continue to operate (this is normal)

- Carefully move the unit to a drainage location, remove the bottom draiagen plug and let the water drain away (Fig.15). Reinstall the bottom drainage plug and restart the machine until the P1 symbol disappears. If the error repeats, call for service.

**NOTE:** Be sure to reinstall the bottom drainage plug before using the unit.



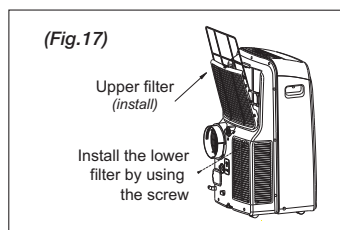
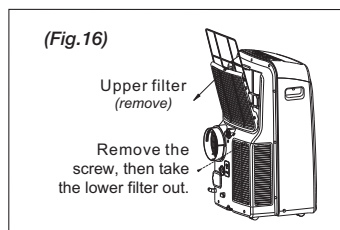
## CARE AND MAINTENANCE

### IMPORTANT:

- Be sure to unplug the unit before cleaning or servicing.
- Do not use gasoline, thinner or other harsh chemicals to clean the unit.
- Do not wash the unit directly under running water. It may cause electrical malfunction.
- If the power cord is damaged, have it repaired by the manufacturer or a similarly qualified person.

### 1. AIR FILTER

- Clean the air filter at least once every two weeks to ensure proper fan operation.
- **Removal:** This unit has two filters. Remove the upper filter according to the arrow directions. (Fig.16).  
Disassemble the lower filter by loosening the screw and remove it (Fig.16).
- **Cleaning:** Immerse the air filter in warm water (about 40°C/104°F) using a neutral detergent. Rinse the air filter and allow to dry naturally.
- **Mounting:** Install the upper air filter after cleaning. Install the lower air filter by securing the screw (Fig.17).

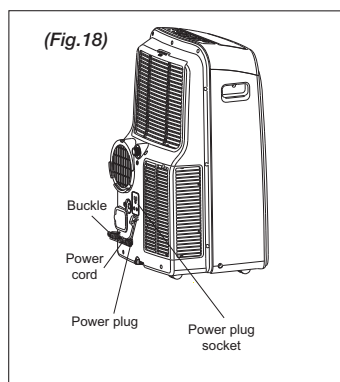


### 2. UNIT ENCLOSURE

- Use a lint-free cloth soaked with neutral detergent to clean the unit enclosure. Dry using a clean cloth.

### 3. UNIT IDLE FOR A LONG TIME

- Remove the rubber plug at the back of the unit and attach a hose to drain outlet. Place the open end of the hose directly over the drainage area in your basement floor (See Fig.13 & 14).
- Remove the plug from the bottom drainage outlet, all the water in the bottom tray would drain out (See Fig.15).
- Keep the appliance running on FAN mode for half a day in a warm room to dry the appliance inside and prevent mold from forming.
- Stop the appliance and unplug it, wrap the cord and bundle it with the tape (Fig.18). Remove the batteries from the remote controller.
- Clean the air filter and reinstall it.



## TROUBLESHOOTING

TROUBLES	POSSIBLE CAUSES	RECOMMENDED ACTION
Unit does not start when ON/OFF button is pressed	P1 error code is displayed.	Drain the water in the bottom tray.
	Room temperature is lower than the set temperature. (Cooling mode)	Reset the temperature.
Not cool enough	The windows or doors in the room are not closed.	Make sure all the windows and doors are closed.
	There are heat sources inside the room.	Remove the heat sources if possible.
	Exhaust air duct is not connected or blocked.	Connect the duct and make sure it can function properly.
	Temperature setting is too high.	Decrease the set temperature.
	Air filter is blocked by dust.	Clean the air filter.
Noise or vibration	The ground is not level or not flat enough.	Place the unit on a flat, level ground if possible.
Gurgling sound	The sound comes from the flowing of the refrigerant inside the air-conditioner.	This is normal.
Heating mode Power shut off at	Automatic overheating protection is activated. When temperature at the air outlet exceeds 70°C/158°F, the unit will automatically power off.	Switch on again after the unit has cool down.

## SPECIFICATIONS

MODEL NO.	CPA-PH9000	CPA-PH12000
RATED VOLTAGE / FREQUENCY	220-240V~ 50Hz	
RATED WATTAGE	1200W	1600W
NET WEIGHT	30 Kg	33.5 Kg