

MUPO-12-H4 HEAT PUMP

User and installation manual



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IMPORTANT:

Thank you for selecting super quality Air Conditioners. To ensure satisfactory operation for many years to come, this manual should be read carefully before the installation and before using the air conditioner. After reading, store it in a safe place. Please refer to the manual for questions on use or in the event that any irregularities occur.

This Air Conditioner should be used for household use.

This unit must be installed by a professional according to CE 795/2010.

WARNING:

The power supply must be SINGLE-PHASE (one phase (L) and one neutral (N)) with its grounded power (GND) and its manual switch. Any breach of these specifications involves a breach of the warranty conditions provided by the manufacturer.

NOTE:

In line with the company's policy of continual product improvement, the aesthetic and dimensional characteristics, technical data and accessories of this appliance may be changed without notice.

USER AND INSTALLATION MANUAL

Read This Manual

Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner. You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of Troubleshooting Tips first, you may not need to call for service at all.

CAUTION

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play the appliance. Cleaning and user maintenance shall not be made by children without supervision. (be applicable for the European Countries)
- This appliance is not intended for use by persons (including children) with reduced physical ,sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. (be applicable for other countries except the European Countries)
- Children should be supervised to ensure that they do not play with the appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The appliance shall be installed in accordance with national wiring regulations.
- Do not operate your air conditioner in a wet room such as a bathroom or laundry room.
- The appliance with electric heater shall have at least 1 meter space to the combustible materials.
- Contact the authorised service technician for repair or maintenance of this unit.
- Contact the authorised installer for installation of this unit.

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CARE AND MAINTENANCE

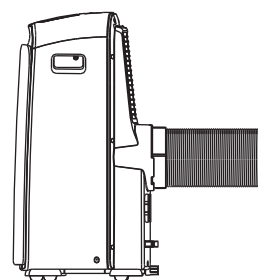
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NOTE

The rating data indicated on the energy label is based on the testing condition of installing the un-extended air exhaust duct without adaptor A & B (The duct and the adaptor A & B are listed in the accessories chart of the Instruction Manual). See the right figure.



When using this air conditioner in the European countries, the following information must be followed:

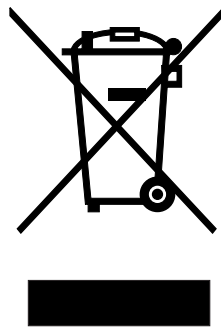
DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

It is prohibited to dispose of this appliance in domestic household waste.

For disposal, there are several possibilities:

- A) The municipality has established collection systems, where electronic waste can be disposed of at least free of charge to the user.
- B) When buying a new product, the retailer will take back the old product at least free of charge.
- C) The manufacture will take back the old appliance for disposal at least free of charge to the user.
- D) As old products contain valuable resources, they can be sold to scrap metal dealers.

Wild disposal of waste in forests and landscapes endangers your health when hazardous substances leak into the ground-water and find their way into the food chain.



CAUTION:

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

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

! Always do this

- 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.
- Always transport your air conditioner in a vertical position and stand on a stable, level surface during use.
- Turn off the product when not in use.
- Always contact a qualified person to carry out repairs. If the supply cord is damaged it must be repaired by a qualified repairer.
- Keep an air path of at least 30cm all around the unit from walls, furniture and curtains.
- If the air conditioner is knocked over during use, turn off the unit and unplug from the mains supply immediately.

⊘ Never do this

- Do not operate your air conditioner in a wet room such as a bathroom or laundry room.
- Do not touch the unit with wet or damp hands or when barefoot.
- Do not press the buttons on the control panel with anything other than your fingers.
- Do not remove any fixed covers. Never use this appliance if it is not working properly, or if it has been dropped or damaged.
- Never use the plug to start and stop the unit.
- Always use the switch on the control panel.
- Do not cover or obstruct the inlet or outlet grilles.
- 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.
- Do not allow children to operate the unit unsupervised.
- Do not use this product for functions other than those described in this instruction manual.

Energy Save

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

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)~35°C(95°F) |
| HEAT(heat pump type) | 5°C(41°F)~30°C(88°F) |
| HEAT(electrical heat type) | ≤30°C/88°F |

Suggested tools for window kit installation

1. Screwdriver(medium size Phillips)
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)

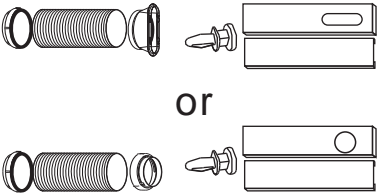





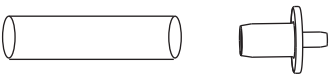
⚠ WARNING For your safety

- 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.

⚠ WARNING Electrical Information

- Be sure 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.
- Be sure the air conditioner is properly grounded. To minimize shock and 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.

Accessories

| PARTS : | PARTS NAME : | QUANTITY : |
|---|---|------------|
|  | Exhaust hose and Apaptorl 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) | 1pc |
|  | Drain hose and drain hose adaptor(※) | 1pc |

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 explanation purpose only. Your air conditioner may be slightly different. The actual shape shall prevail.

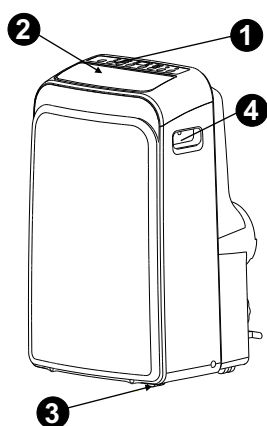


Fig.1

NAMES OF PARTS

Front

- ❶ Operation panel
- ❷ Horizontal louver blade (swing automatically)
- ❸ Caster
- ❹ Carrying handle (both sides)

Rear

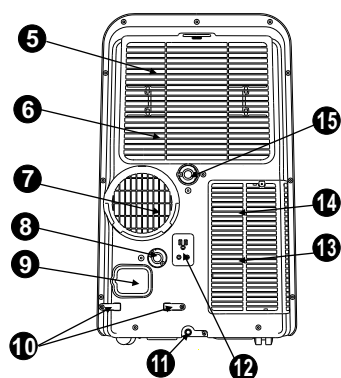


Fig.2

- ❺ Upper air filter (Behind the grille)
- ❻ Upper air intake
- ❼ Air outlet
- ❽ Drain outlet (only for Pump heating model)
- ❾ Power cord outlet
- ❿ Power cord buckle (Used only when storing the unit)
- ⓫ Bottom tray drain outlet
- ⓬ Power plug socket (Use only when storing the unit)
- ⓭ Lower air filter (Behind the grille)
- ⓮ Lower air intake
- ⓯ Drain outlet

ELECTRONIC CONTROL 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 OF THE AIR CONDITIONER

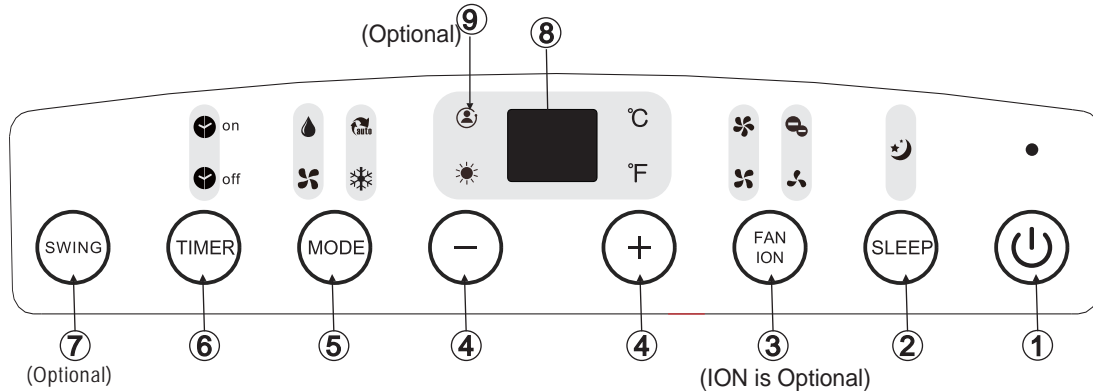


Fig.3

NOTE: On some models SLEEP button is instead of ECO button.

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 select 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 initiate 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 stop the ION feature.

④ UP(+) and DOWN(-) button

Used to adjust (increasing/decreasing) temperature settings(1°C/2°F increments) in a range of 17°C(62°F) to 30°C(88°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.

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 mode settings.

⑥ TIMER button

Used to initiate 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)

Used to initiate 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 " or " °F " and the Auto-timer settings.

While on DRY and FAN modes, it shows the room temperature.

Error codes and protection code:

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

9 FOLLOW ME/TEMP SENSING feature(optional)

NOTE: *This feature can be activated from the remote control ONLY. The remote control serves as a remote thermostat allowing for the precise temperature control at its location.*

To activate the Follow Me/Temp Sensing feature, point the remote control towards the unit and press the Follow Me/Temp Sensing button. The remote display is actual temperature at its location. The remote control will send this signal to the air conditioner every 3 minutes interval until press the Follow Me/Temp Sensing button again. If the unit does not receive the Follow Me/Temp Sensing signal during any 7 minutes interval, the unit will beep to indicate the Follow Me/Temp Sensing mode has ended.

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.
- Press the "FAN SPEED" button to choose the fan speed.

HEAT operation(cooling only models without)

- Press the "MODE" button until the "HEAT" 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.
- Press the "FAN SPEED" button to choose the fan speed. For some models, the fan speed can not be adjusted under HEAT mode.

- 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, heating(cooling only models without), or fan only operation depending on what temperature you have selected and the room temperature.
- The air conditioner will control room temperature automatically round the temperature point set by you.
- Under AUTO mode, you can not select the fan speed.

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.

TIMER operation

- When the unit is on, press the Timer button will initiate 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 initiated. And the TIMER ON indicator light illuminates. Press the up or down button to select the desired Auto-on start time.
- When the unit is off, press the Timer button to initiate the Auto-on start program, press it again within five seconds will initiate 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 in 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.

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.

NOTE: This feature is unavailable under FAN or DRY mode.

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

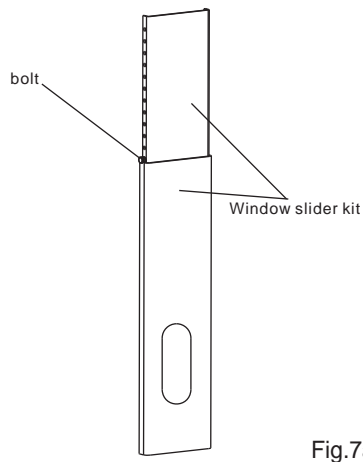
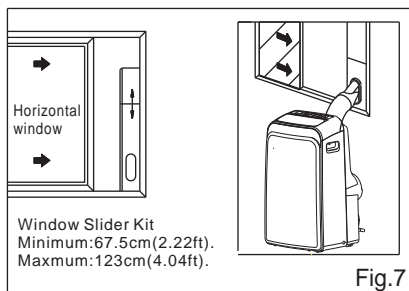
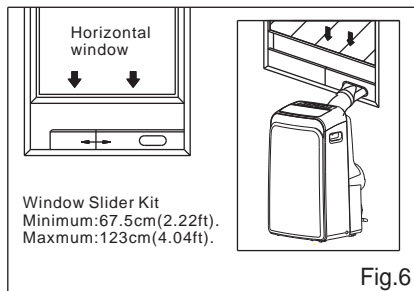
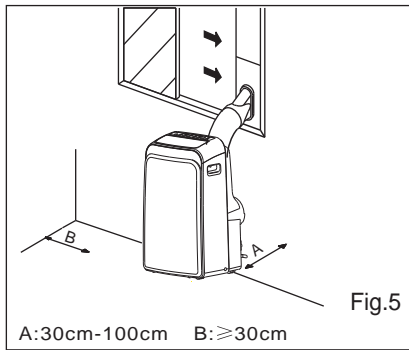
The louver can be adjusted automatically .

• **Adjust the air flow direction automatically (Fig.4):**

- 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.
- Please do not adjust the louver manually.



Fig.4



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.

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. 6& Fig.7 for minimum and maximum window openings. Window slider kit can be fixed with a bolt (see Fig.7a).

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. Do never cut out the hole in window slider kit.

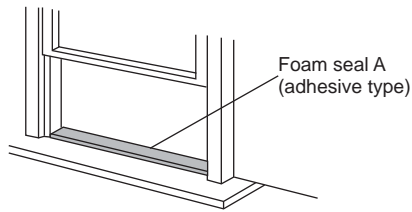


Fig.8

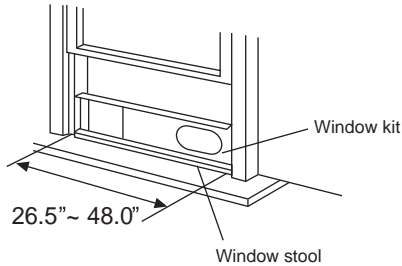


Fig.9

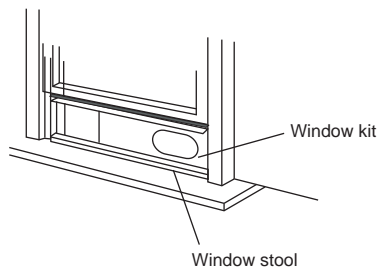


Fig.10

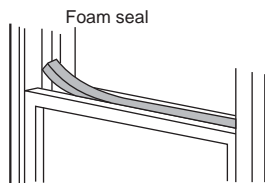


Fig.11

Installation in a double-hung sash window

1. Cut the foam seal(adhesive type) to the proper length and attach it to the window stool. Fig.8
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. Fig.9
3. Cut the foam seal(adhesive type) to the proper length and attach it on the top of the window. Shown as in Fig.10
4. Close the window 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. Shown as in Fig.11.

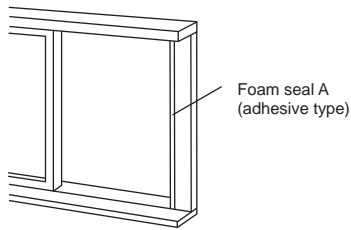


Fig.12

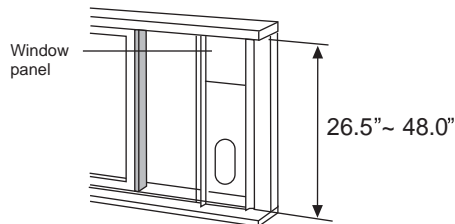


Fig.13

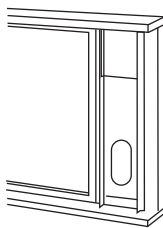


Fig.14

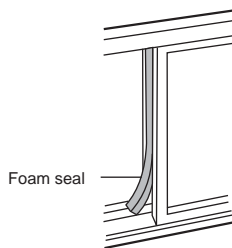


Fig.15

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.12.
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.13.
3. Cut the foam seal(adhesive type) to the proper length and attach it on the top of the window. Shown as in Fig.14.
4. Close the sliding sash securely against the window.
5. Cut the foam seal to an appropriate length and sea the open gap between the top window sash and outer window sash. Shown as in Fig.15.

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

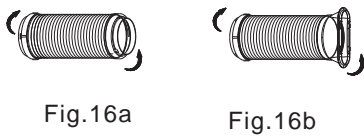


Fig.16a

Fig.16b

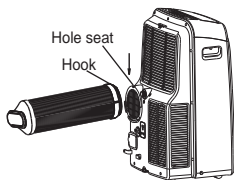


Fig.17

Exhaust hose installation:

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

| | |
|--|---------|
| COOL,HEAT(heat pump type) or AUTO mode | Install |
| FAN,DEHUMIDIIFY or HEAT(electrical heat type) mode | Remove |

1. Install the adaptor B and adaptor I onto the exhaust hose as shown in Fig.16a or Fig.16b. Refer to the previous pages for window kit installation.
2. Resert 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.17) 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.18)
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.

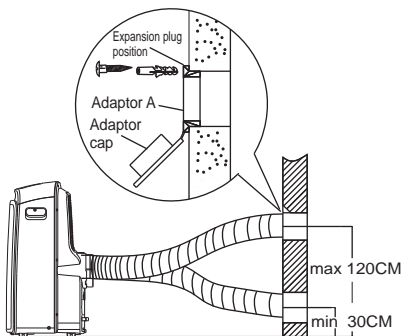


Fig.18

IMPORTANT:

DO NOT OVER BEND THE EXHAUST HOSE (SEE Fig.19)

⚠ CAUTION:

Make sure that there is no obstacle around the air outlet of the exhaust hose (in the range of 500mm) in order to the exhaust system works properly.

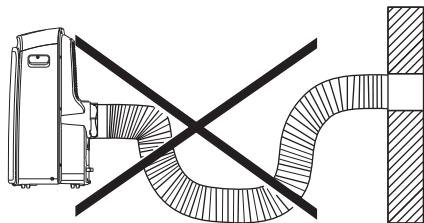


Fig.19

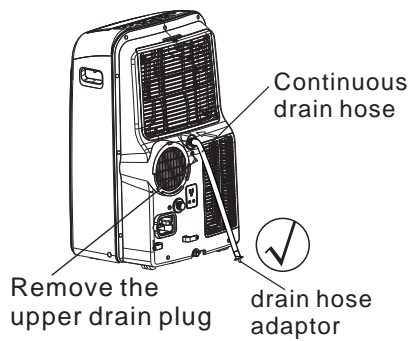


Fig.20a

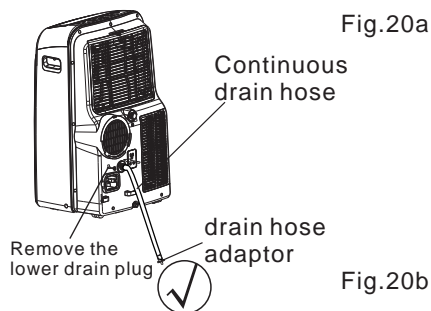


Fig.20b

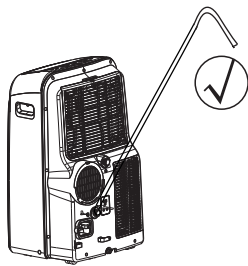


Fig.21a

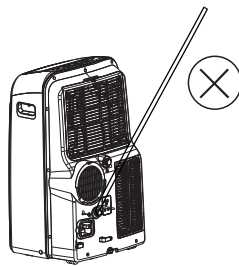


Fig.21b

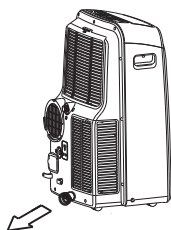


Fig.22

Water drainage:

- During dehumidifying modes, remove the upper drain plug from the back of the unit, install the drain connector(5/8" universal female mender) with 3/4" hose(locally purchased). For the models without drain connector, just attach the drain hose to the hole. Place the open end of the hose adaptor directly over the drain area in your basement floor. Please refer to Fig.20a.

- During heating pump mode, remove the lower drain plug from the back of the unit, install the drain connector(5/8" universal female mender) with 3/4" hose(locally purchased). For the models without drain connector, just attach the drain hose to the hole. Place the open end of the hose adaptor directly over the drain area in your basement floor. Please refer to Fig.20b.

NOTE: Make sure the hose is secure so there are no leaks. Direct the hose toward the drain, making sure that there are no kinks that will stop the water flowing. Place the end of the hose into the drain and make sure the end of the hose is down to let the water flow smoothly. (See Fig.20a, 20b, 21a). Do not let it up. (See Fig.21b).

- 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 drain location, remove the bottom drain plug and let the water drain away (Fig.22). Reinstall the bottom drain plug and restart the machine until the "P1" symbol disappears. If the error repeats, call for service.

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

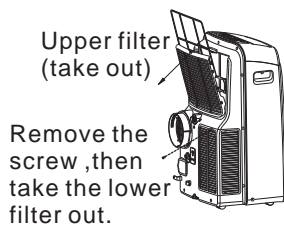


Fig.23

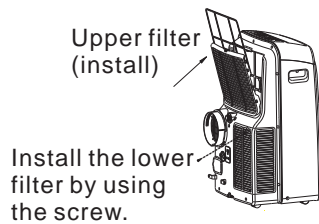


Fig.24

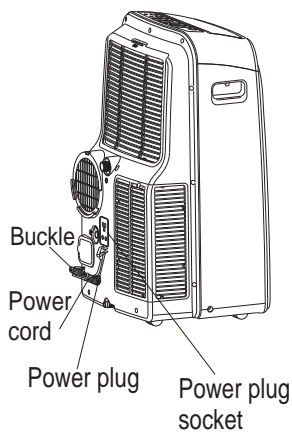


Fig.25

CARE AND MAINTENANCE

IMPORTANT:

- 1) Be sure to unplug the unit before cleaning or servicing.
- 2) Do not use gasoline, thinner or other chemicals to clean the unit.
- 3) Do not wash the unit directly under a tap or using a hose. It may cause electrical danger.
- 4) If the power cord is damaged, it should be repaired by manufacture or its agency.

1. Air filter

- Clean the air filter at least once every two weeks to prevent inferior fan operation because of dust.
- Removal
This unit has two filters. Take the upper filter out along the the arrow direction (Fig.23),then take the filter down. Remove the lower filter by loosening the screw, taking out the filter as shown in Fig.23.
- Cleaning
Wash the air filter by immersing it gently in warm water (about 40°C/104°F) with a neutral detergent. Rinse the filter and dry it in a shady place.
- Mounting
Install the upper air filter after cleaning , and install the lower filter by using the screw (see Fig.24).

2. Unit enclosure

- Use a lint-free cloth soaked with neutral detergent to clean the unit enclosure. Finished by a dry 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 drain area in your basement floor (See Fig.20 & 21).
- Remove the plug from the bottom drain outlet, all the water in the bottom tray would drain out (See Fig.22).
- Keep the appliance running on FAN mode for half a day in a warm room to dry the appliance inside and prevent mold forming.
- Stop the appliance and unplug it, wrapped the cord and bundle it with the tape(Fig.25). Remove the batteries from the remote controller.
- Clean the air filter and reinstall it.

TROUBLESHOOTING

| TROUBLES | POSSIBLE CAUSES | SUGGEST REMEDIES |
|---|--|--|
| 1. Unit does not Start when Pressing on/off Button | - P1 appears in the display window | Drain the water in the bottom tray. |
| | - Room temperature is lower than the set temperature.(Cooling mode) | Reset the temperature. |
| 2. 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. |
| 4. Noisy or vibration | - The ground is not level or not flat enough. | Place the unit on a flat, level ground if possible. |
| 5. Gurgling sound | - The sound comes from the flowing of the refrigerant inside the air-conditioner. | It is normal. |
| 6. Power shut off at Heating mode | - The automatic over heat protection function. When the temperature at the air outlet exceed 70°C/158°F, the device will stop. | Switch on again after the unit has cool down. |

REMOTE CONTROLLER

Please read this Owner's Manual carefully before operation.
Save this manual in a safe place for future reference.

Remote Controller Specification

| | |
|---------------------------------------|--|
| Model | R51M/(C)E, R51M/BG(C)E, RG51M2/(C)E, RG51A/(C)E, RG51M3/(C)E, RG51M3/BG(C)E, RG51M8/(C)E, RG51M9/(C)E. |
| Rated Voltage | 3.0V(Alkaline dry batteries LR03×2) |
| Lowest Voltage of CPU Emitting Signal | 2.0V |
| Transmission Distance | 8m (when using 3.0 voltage, it Gets 11m) |
| Environment | -5℃~60℃ |

Performance Features

1. Operating Mode: AUTO、COOL、 DRY、 HEAT(Cooling only model without) and FAN .
2. Timer Setting Function in 24 hours.
3. Indoor Setting Temperature Range : 17℃~30℃.
4. Full function of LCD (Liquid Crystal Display)
5. Back light emitting(only available for R51M(3)/BG(C)E models)

Features of the Remote controller buttons

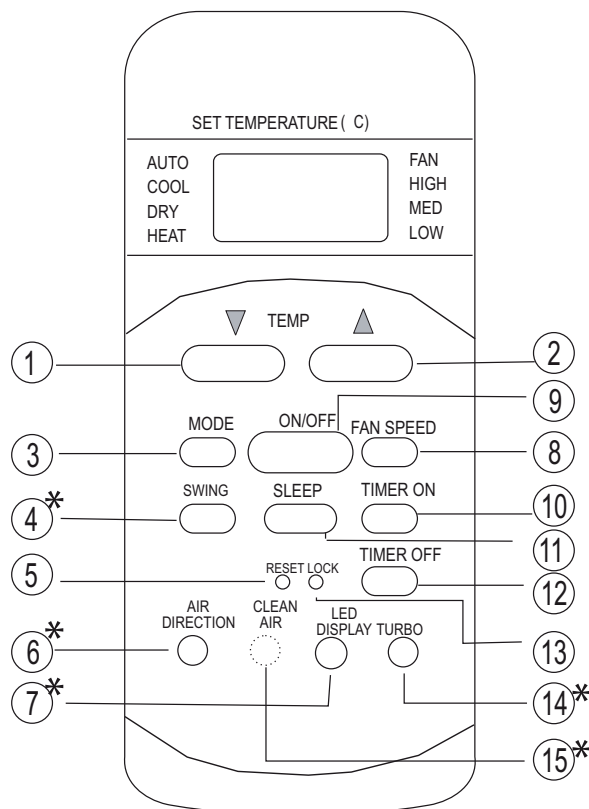


Fig. 1

NOTE:

* : Indicates optional button.

14* and 15* buttons are not available for Models RG51M2/(C)E.

7*, 14* and 15* buttons are not available for Models RG51M3/(C)E and RG51M3/BG(C)E.

15* button is not available for Models R51M/(C)E and R51M/BG(C)E.

4*, 6*, 7*, 14*, 15* buttons are not available for Models RG51M9/(C)E.

6*, 7*, 14*, 15* buttons are not available for Models RG51M8/(C)E.

- ① TEMP Button ▼ Push this button to decrease the indoor temperature setting.
- ② TEMP Button ▲ Push this button to increase the indoor temperature setting .
- ③ MODE Selection Button: Each time the button is pressed, the operation mode is shifted in the direction of the arrow:



▲ NOTE: COOL only model has no HEAT feature.

- ④ SWING Button: Push this switch button to activate auto swing feature of the horizontal louver. Push it again to stop.
- ⑤ RESET Button: When you press the recessed RESET button, all current settings are cancelled and the control will return to the initial settings.
- ⑥ AIR DIRECTION Button: Press this button to change the swing angle of the louver. The swing angle of the louver is 6° for each press. When the louver swing at a certain angle which would affect the cooling and heating effect of the air conditioner, it would automatically change the swing direction . No symbol will appear in the display area when press this button. (Not applicable to units without this function).
- ⑦ LED DISPLAY Button: Press this button to clear the digit display in the air conditioner, press it again to activate it (Not available for the units without LED display window).
- ⑧ FAN SPEED Button: Used to select the Fan Speed in four steps- AUTO、LOW 、 MED or HIGH. Each time the button is pressed, the fan speed mode is shifted.
- ⑨ ON/OFF Button: Push this button to start operation, push the button again to stop operation.
- ⑩ TIMER ON Button: Press this button to initiate the auto-on time sequence. Each press will increase the auto-timed setting in 30 minutes increments. When the setting time displays 10, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, simply adjust the auto-on time to 0.0.
- ⑪ SLEEP Button: Press this button to go into the Energy-Saving operation mode. Press it again to cancel. This function is only can be used on COOL, HEAT and AUTO mode and maintain the most comfortable temperature for you.

- ⑫ **TIMER OFF Button:** Press this button to initiate the auto-off time sequence. Each press will increase the auto-timed setting in 30 minutes increments. When the setting time displays 10, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, simply adjust the auto-off time to 0.0.
- ⑬ **LOCK Button:** When you press the recessed LOCK button, all current settings are locked in and the remote controller does not accept any operation except that of the LOCK. Press again to cancel the LOCK mode.
- ⑭ **TURBO Button:** Push this button to activate/cancel the Turbo function which enables the unit to reach the preset temperature in the shortest time. On cooling mode, the unit will blow strong cooling air with super high fan speed. On heating mode (applicable to the unit adopts PTC only), the PTC will bring fast heating operation.
- ⑮ **CLEAN AIR Button (on some models):** When push this button, the Ionizer or Plasma Dust Collector (depending on models) is energized and will help to remove pollen and impurities from the air.

Indicators on Display Panel

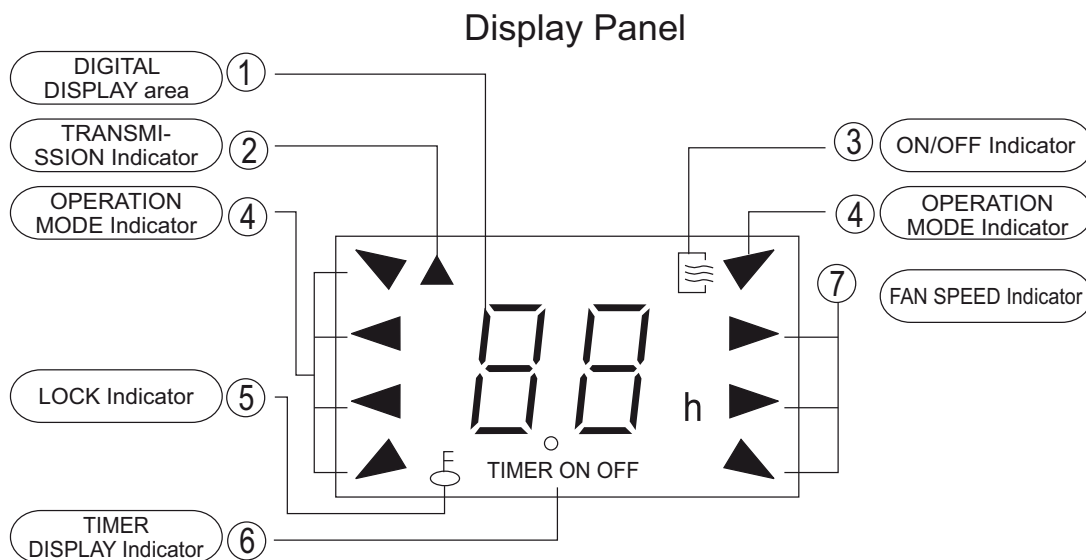



Fig. 2

- ① **DIGITAL DISPLAY area:** This area will show the set temperature and, if in the TIMER mode, will show the ON and OFF settings of the TIMER. If in the FAN mode, nothing is appeared.
- ② **TRANSMISSION Indicator:** This indicator flashes one time when remote controller transmits signals to the indoor unit.

- ③ ON/OFF Indicator: This symbol appears when the unit is turned on by the remote controller, and disappear when the unit is turned off.
- ④ OPERATION MODE Indicator: When press the MODE button, it shows the current operating mode -- "AUTO", "COOL", "DRY", "HEAT" (Cooling only model without) , or "FAN" mode.
- ⑤ LOCK Indicator: LOCK display is displayed by pushing the LOCK button. Push the LOCK button to clear display.
- ⑥ TIMER DISPLAY Indicator: This display area shows the settings of the TIMER. That is, if only the starting time of operation is set, it will display the TIMER ON. If only the turning off time of operation is set, it will display the TIMER OFF. If both operations are set, it will show TIMER ON-OFF which indicates you have chosen to set both the starting time and off time.
- ⑦ FAN SPEED Indicator: Press the FAN SPEED button to select the desired fan speed setting (Auto-Low-Med-High). You selection will be displayed in the LCD window except the Auto fan speed.

 **NOTE:** All signs shown in the Fig.2 is for the purpose of clear presentation. But during the actual operation only the relative functional signs are shown on the display panel.

Operating the Remote Controller

Install/Replace Batteries

The Remote Controller uses two alkaline dry batteries(LR03X2).

1. To install the batteries, slide the back cover of the battery compartment and install the batteries according the direction (+and -)shown on the Remote Controller.
2. To replace the old batteries, use the same method as mentioned above.

NOTE

1. When replacing batteries, do not use old batteries or a different type battery. This may cause the remote control to malfunction.
2. If you do not use the remote controller for several weeks remove the batteries. Otherwise battery leakage may damage the remote controller.
3. The average battery life under normal use is about 6 months.
4. Replace the batteries when there is no answering beep from the indoor unit or if the Transmission Indicator light fails to light.
5. Do not dispose batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

AUTOMATIC OPERATION

1. Use the MODE button to select AUTO.
2. Push the TEMP button to set the desired room temperature .
The most comfortable temperature settings are between 21 C to 28°C.
3. Push the ON/OFF button to start the air conditioner. The OPERATION lamp on the display panel of the indoor unit lights. The FAN SPEED is automatically set and there are no fan speed indicators shown on the display panel of the remote controller.
4. Push the ON/OFF button again to stop the unit operation.

NOTE

1. In the AUTO mode, the air conditioner can logically choose the mode of COOL, FAN and HEAT by sensing the difference between the actual ambient room temperature and the set temperature on the remote controller.
2. If the AUTO mode is not comfortable for you, the desired mode can be selected manually.

COOL/ HEAT (Cooling only model without) and FAN Operation

1. If the AUTO mode is not comfortable, you may manually over-ride the settings by using COOL, HEAT or FAN modes.
2. Push the TEMP button to set the desired room temperature.
When in COOLING mode, the most comfortable settings are 21 C or above. When in HEATING mode, the most comfortable settings are 28°C or below.
3. Push the FAN SPEED to select the FAN mode of AUTO, HIGH, MED or LOW.
4. Push the ON/OFF button, the operation lamp lights and the air conditioner start to operate as your settings. Push the ON/OFF button again to stop this unit operation.

NOTE

- The FAN mode can not be used to control the temperature.
While in this mode, only steps 1 ,3 and 4 may be performed.

DRY Operation

1. Push the MODE button to select DRY.
2. Push the TEMP button to set the desired temperature from 17°C to 30°C.
3. Push the ON/OFF button, the OPERATION lamp lights and the air conditioner starts to operate in DRY mode at LOW fan speed. Push the ON/OFF button again to stop this unit operation.

NOTE

Due to the difference of the set temperature of the unit and the actual indoor temperature, the Air Conditioner when in DRY mode will automatically operate many times without running the COOL and FAN mode.

TIMER Operation

Push TIMER ON button to set the auto- on time and TIMER OFF button to set the auto-off time.

1. To set the starting time.
 - 1.1 Push the TIMER ON button, then the remote controller shows TIMER ON , the last set time for the starting operation and the signal "h" will be shown on the DIGITAL DISPLAY area. You are now ready to reset the time to START the operation.
 - 1.2 Push the TIMER ON button again to set desired unit start time.
 - 1.3 After setting the TIMER ON ,there will be a one-half second delay before the remote controller transmits the signal to the air conditioner. Then, after approximately another 2 seconds, the signal "h" disappears and the set temperature will re-appear on the digital display.
2. To set the stopping time.
 - 2.1 Push the TIMER OFF button and the remote controller will show TIMER OFF, the last set time for the stopping operation and the signal "h" will be shown on the DIGITAL DISPLAY area. You are now ready to reset the time of the STOP operation.
 - 2.2 Push the TIMER OFF button again to set the time you want to stop the operation.
 - 2.3 After setting the TIMER OFF ,there will be a one-half second delay before the remote controller transmits the signal to the air conditioner. Then, after approximately another 2 seconds, the signal "h" disappears and the set temperature will re-appear on the digital display.

3. Set the starting & stopping time

- 3.1 Push the TIMER ON button, the remote controller will show TIMER ON, the last set time for START operation and the signal "h" will be shown on the DIGITAL display area. You are now ready to readjust the TIMER ON to start the operation.
- 3.2 Push the TIMER ON button again to set the time you want to start the operation.
- 3.3 Push the TIMER OFF button, the remote controller will show TIMER OFF, the last set time for STOP operation and the signal "h" will be shown on the DIGITAL display area. You are now ready to reset the time to STOP operation.
- 3.4 Push the TIMER OFF button again to set the time you want to stop the operation.
- 3.5 After setting the TIMER, there will be a one-half second delay before the remote controller transmits the signal to the Air Conditioner. Then, after approximately another 2 seconds, the signal "h" disappears and the set temperature will re-appear on the digital display.

Change the TIMER

- To change the TIMER ON/OFF time, just press the corresponding TIMER button and reset the time.
- To cancel the TIMER ON/OFF setting, just adjust the TIMER time to 0:00.

NOTE

The setting time is relative time. That is the time set is based on the delay of the current time.

Warning

1. Be sure there are no obstacles between the remote controller and the receiver of indoor unit otherwise the air conditioner will not work.
2. Keep the Remote Controller away from any liquids.
3. Protect the remote controller from the high temperatures and exposure to radiation.
4. Keep the indoor receiver out of direct sunlight or the Air Conditioner may malfunction.
5. Keep Remote Controller away from EMI(Electro-Magnetic Interference) supplied by other household appliances.



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