carson

Portable Air Conditioner – PA210

User Manual

[Revision 1.0 September 2018]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

E&OE

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:

You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.

You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.

You CAN be INJURED if you do not follow instructions or equipment damage may occur.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment, or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well it.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol or medication.
- This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors and vents.

General Equipment Use and Care

- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

General Electrical Safety

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Wherever possible, use a residual current device (RCD).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

General Electrical Safety

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

General Service Information

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before making adjustments, changing accessories or performing repair or maintenance.
- Do NOT make adjustments while the equipment is running.
- Perform service related activities in suitable conditions, such as a workshop.
- Replace worn, damaged or missing warning/safety labels immediately.

Important Safeguards

- This air-conditioner is suitable for indoor use only rather than for other occasions.
- Rated operating range: this unit shall be connected to 220-240V / 50Hz power output end.
- The air-conditioner shall be installed in accordance with the wiring rules of local grid to ensure proper grounding. Should you have any question about electrical installation, follow the User's Manual or have the installation done by professional electrician whenever necessary.
- Please put this unit in a flat and dry place and keep it at least 50cm away from surrounding objects or walls.
- Once the air-conditioner is installed, ensure that the plug wire is in good condition and inserted firmly into the power socket and always ensure that the power cord is arranged in order to prevent the personnel from stumbling over it or the plug from being pulled out.
- Do not insert any object into the air inlet/outlet of the air-conditioner. Be sure to keep the air inlet/outlet of the air-conditioner unblocked.
- Where there is the need to install a drain pipe, ensure that the connection of the drain pipe is in good condition without flexure.
- When adjusting the horizontal/vertical louver at the air outlet, turn it slightly by hand to avoid damage of the louver.
- Keep the unit in an upright position when moving it.
- Keep this unit away from gasoline, flammable gases, oven or other heat sources.
- Do not dismantle, inspect or modify the unit without authorization as this may result in fault of the unit, and even bodily injury & property damage; to avoid dangers, if the unit is faulty, be sure to have it repaired by the manufacturer or professionals.
- Do not install and operate this air-conditioner in a bathroom or other wet environments.
- Do not allow the children to play with this machine. Closely supervise the children or disabled people when this unit is in use.
- Do not turn off this unit by removing the plug.
- Do not place such objects as cups on the unit to prevent water or other liquids from spilling into the air-conditioner.
- Do not use pest control aerosol or other flammable substances near the air-conditioner.
- Do not wipe or wash the unit with chemical solvents such as gasoline and alcohols, etc. Before cleaning the air-conditioner, be sure to turn off the power supply and wipe it with soft semi-wet cloth; if the machine is indeed very dirty, wipe it with neutral cleaner.
- **Recommendation**: Do not operate this unit if the ambient temperature is greater than 35℃ in the cooling mode.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc, replace them.

Flammable Material Hazard
Flammable liquids, gases or substances etc may present. Avoid ignition sources and open flames. Danger of fire.

Read User Manual
Read and fully understand product safety warnings, operation, procedures etc before using the product.

Use Hand Protection
Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.

Carbon-Monoxide Hazard
Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.

Electrocution / Electrical Shock Hazard
High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.

Toxic Fumes / Dust Hazard
Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.

Explosive Material Hazard
Combustible liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.

Cutting / Amputation Hazard
The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.

Crush Hazard
The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.

Single Operator Only
The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.

Use Face Protection
Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.

Use Foot Protection
Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.

Use Eye / Ear / Head Protection
Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing and head hazards.

Running Hazard
Do not run on or near the product as doing so may present a fall hazard.

Diving Hazard
Do not dive into the product as doing so may present a neck / head injury hazard.

Adult Supervision Required
Always supervise children and other users of a product to prevent drowning or injury.

Skin Penetration / Puncture Hazard
The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.

Hot Surface Hazard
Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.

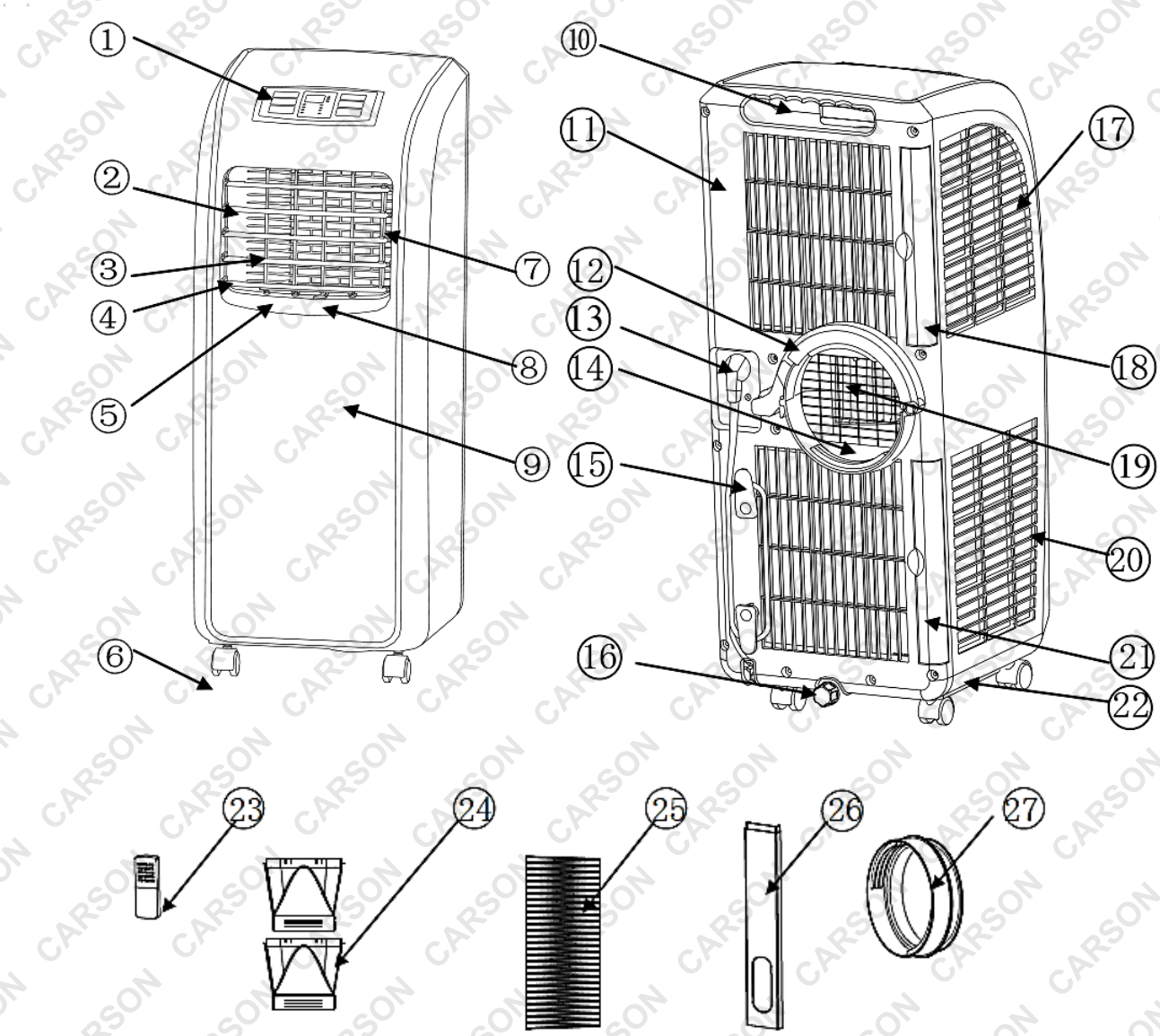
Flying Debris Hazard
Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protectiove devices.

Moving Parts Hazard
Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenence etc.

 **Carbon-Monoxide Hazard** Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.	 **Pull Hazard** Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.	 **Slope / Fall Injury Hazard** Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.	 **"Slam Dunk" Warning** Do NOT attempt "slam dunk" maneouvres as this may result in severe injury due to falling, product breakage or collapse etc.
 **Electrocution / Electrical Shock Hazard - Outdoor** High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.	 **Electrocution / Electrical Shock Hazard - Disconnect** High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenence etc.	 **Power Line Electrocution Hazard** High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.	 **"Kick-Back" Hazard** High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.
 **Winch Operator Position Hazard** Do NOT stand between winch and load. Do NOT use winch to move people.	 **Winch Lift Hazard** Do NOT LIFT load vertically. Use machine to PULL only.	 **Cable Hazard** Ensure that load bearing cable is not kinked or knotted.	 **Winch Cable Hazard** Ensure that there is a minimum number of cable coils on winching mechanism.
 **Winch Hook Hazard** Carry hook to load – do NOT throw or run.	 **Flash / Blinding Hazard** Wear appropriate eye protection for welding. Dorect exposure to weld arcs may cause permanent eye injury.	 **Laser Hazard** Laser may be in use – do NOT look directly at laser, or allow others to.	

Table of Contents

Parts Identification



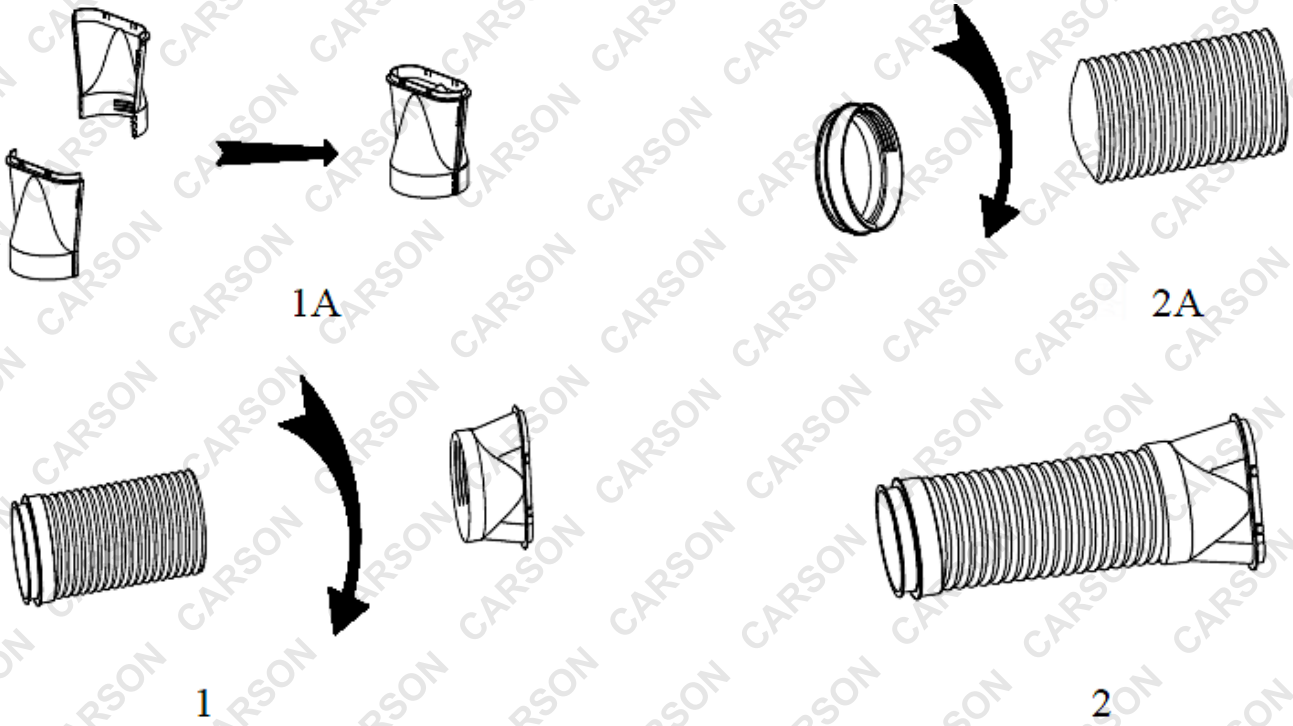
No.	Name	No.	Name	No.	Name
1	Control panel	11	Back shell	21	Condenser filter frame
2	Horizontal louver	12	C-shape buckle of the heat exhaust	22	Base plate (Right side: remote control storage area)
3	Vertical louver	13	Power cord	23	Remote control
4	Air outlet frame	14	Lower air duct bottom	24	Heat exhaust hose outer connector
5	Vertical Louvre connecting lever	15	Wire-winding post	25	Heat exhaust hose exhaust hose snap
6	Caster	16	Drain cap	26	Window sealing board assembly
7	Horizontal louver connecting lever	17	Evaporator filter mesh	27	Round Connector
8	Main vertical louver	18	Evaporator filter frame		
9	Front shell	19	Radiating fine mesh		
10	Handle position	20	Condenser filter mesh		

Assembly

Leave this mobile air-conditioner in an upright position for at least 2 hours before first use.

This air-conditioner may be moved indoor conveniently; leave the air-conditioner in an upright position while moving it. The air-conditioner should be placed on a flat ground surface. Do not install or operate this air-conditioner in a bathroom or other wet environments.

Assembly of the heat exhausts outer connector (Figure 1A), heat exhaust hose short connector (Figure 2A), and the heat exhausts outer connector and heat exhaust hose short connector (Figure 1, Figure 2).



1. Take out the two pieces of the heat exhaust hose outer connector, these two pieces are the same in structure.
2. Hold one piece with each hand, put the joint of one piece toward the other one's groove, and press them to make them snap together tightly (Figure 1A).
3. Take out the heat exhaust hose and the round connector, pull the few turns of the hose end apart, and screw it anti-clockwise into the whorl side of the round connector to form heat exhaust hose assembly A (Figure 2A).
4. Pull the few turns at the other end of the heat exhaust hose apart, screw the round end of the heat exhaust hose outer connector anti-clockwise into the heat exhaust hose to form the heat exhaust hose assembly (Figure 2).

NOTE: When pressing the two pieces of the outer connector, exert the strength from small to big, so as not to cause any damage to it. • The joint must be pressed into position. • The heat exhaust hose and the two sides' connectors should be screwed into position, and at least be screwed three turns.

Installation of the C shape buckle of the heat exhaust hose and unit

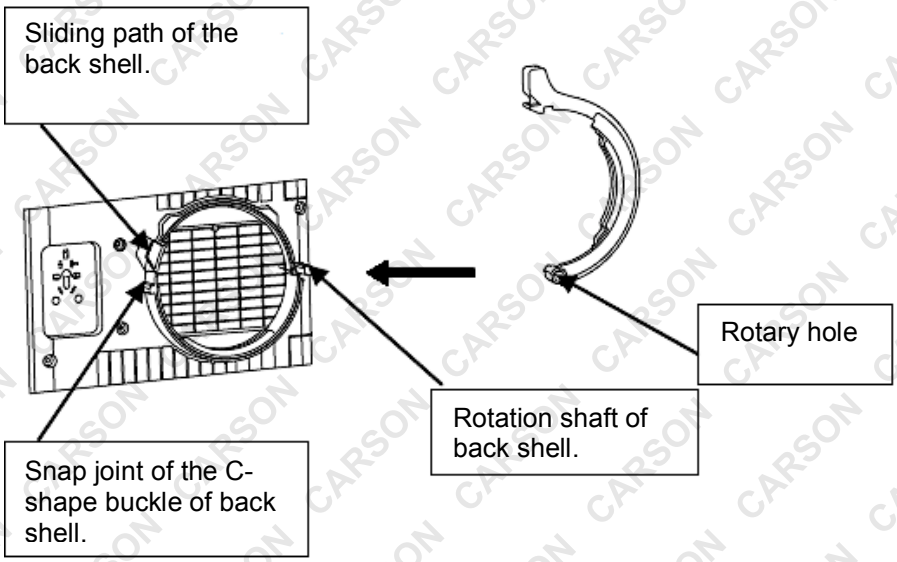


Figure 3

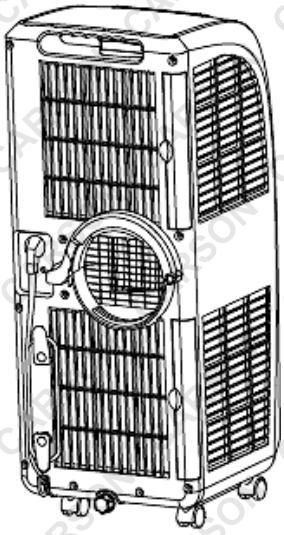


Figure 4

1. Take out the C-shape buckle of the heat exhaust hose and remove the plastic bag.
2. Point the rotary hole at the end of the heat exhaust hose snap toward the rotation shaft of the back shell and slide it onto the back shell in accordance with the snap joint direction of the rotation shaft on the back shell (as shown in Figure 3).

NOTE: When the end snap joint at the end of the rotation shaft of the back shell sticks out of place, it means that the heat exhaust hose snap has slide into place.

3. Rotate the C-shape buckle of the heat exhaust hose that was put into place anti-clockwise to clip the snap joint of the C-shape buckle of the back shell successfully through the guide of the sliding groove of the back shell (as shown in Figure 4).

NOTE: Do not rotate the C-shape buckle of the heat exhaust hose if it is not put into place yet as this may damage the rotation shaft of the back shell and the C-shape buckle of the heat exhaust hose.

Installation of the heat exhaust hose assembly and unit

1. Hold the end handle of the C-shape buckle of the heat exhaust hose with the left hand and the heat exhaust hose short connector with the right hand, put one end of the heat exhaust hose that is pulled apart onto the snap joint of the lower air duct bottom, press the C-shape buckle of the heat exhaust hose with the left hand forcefully so that the C-shape buckle of the heat exhaust hose clips the snap joint of the back shell (as shown in Figure 5).

NOTE: The round connector must be put on the step inside the bottom of the lower air duct (as shown in Figure 5). • The C-shape buckle that clips the heat exhaust hose assembly must clip the back shell and the round connector firmly.

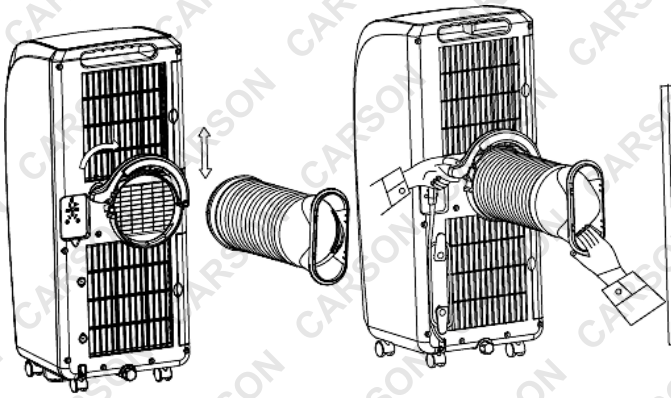


Figure 5

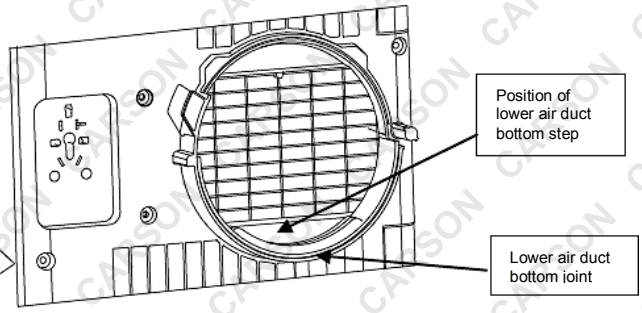


Figure 6

2. Hold the unit with one hand and the heat exhaust hose short connector with another hand; or two people cooperating with one person holding the unit and the other person pulling the heat exhaust hose to extend the heat exhaust hose gently.

NOTE: Do not separate the heat exhaust hose assembly from the unit. •Do not tilt the unit when pulling apart the heat exhaust hose.

Installation of the window sealing board assembly

1. Open the window halfway and mount the window sealing board assembly onto the window, either vertically or horizontally (as shown in Figure 7 and 8).
2. Pull apart the parts of the window sealing board assembly, adjust the distance of the window sealing board assembly that has been pulled apart so that the two ends of the assembly will come in contact with the window frame, then fasten the parts of the assembly with copper screws.

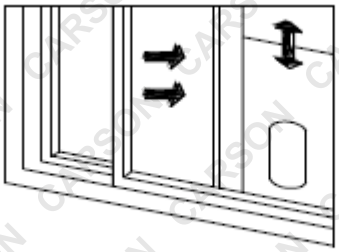


Figure 7

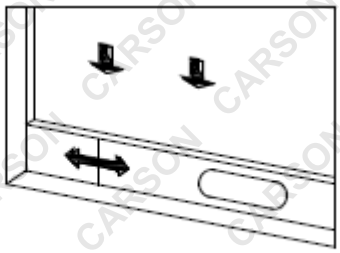


Figure 8

Installation of the unit

1. Move the unit with the heat exhaust hose assembly installed beside the window and keep the unit at least 50cm away from walls or other objects. (As shown in Figure 9).

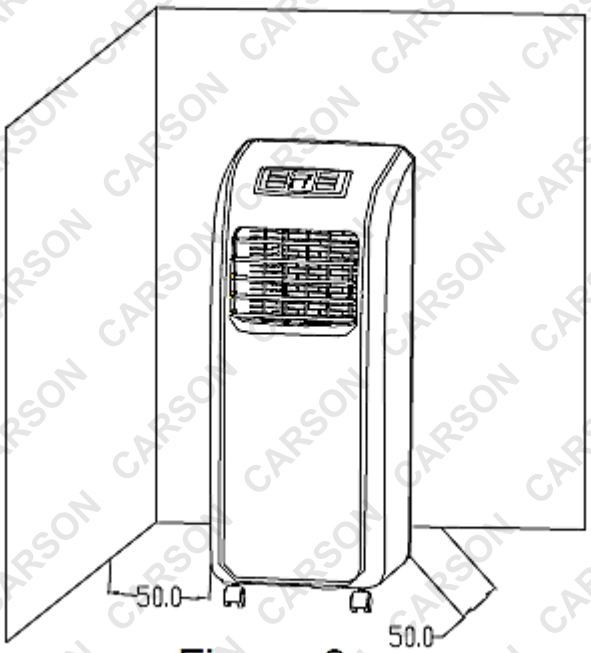


Figure 9

2. Snap the flat end of the heat exhaust hose short connector into the elliptical hole of the window sealing board assembly (as shown in Figure 10and 11).

NOTE: • The flat end of the heat exhaust hose short connector must be snapped into place. • Do not bend the heat exhaust hose too much (greater than 45°) • The heat exhaust hose must be well-ventilated.

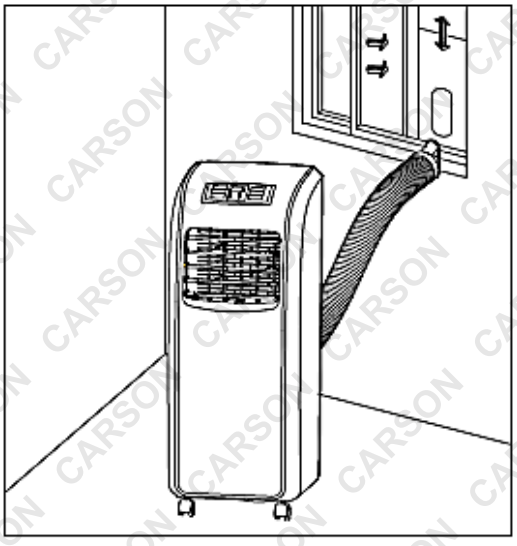


Figure 10

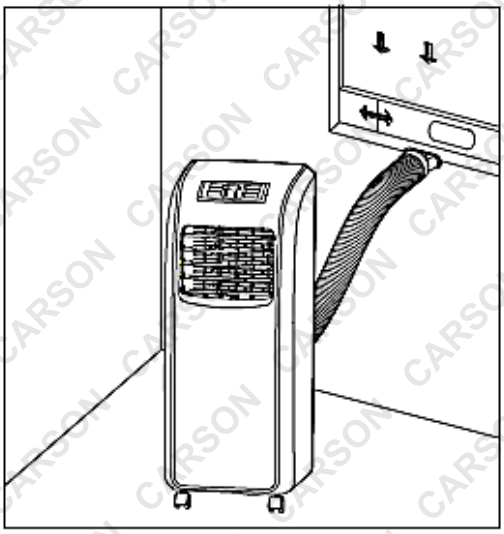
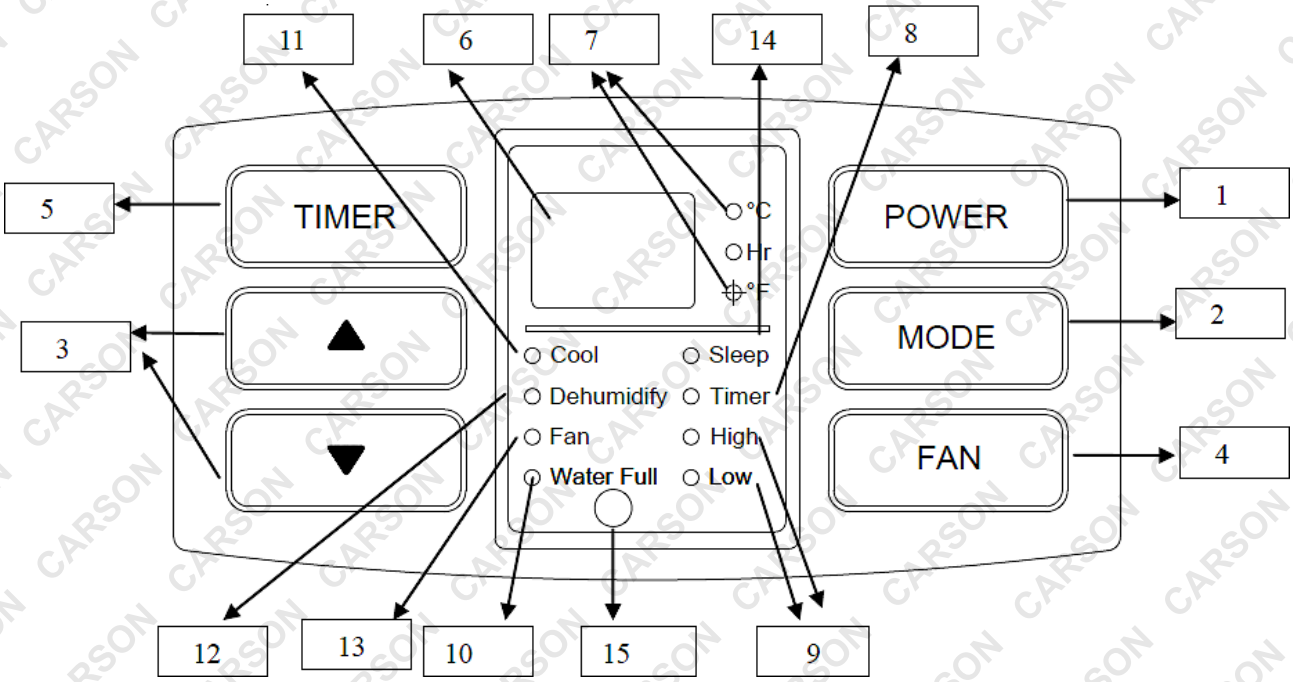


Figure 11

The exhaust hose is 280-1500mm long and this length is determined based on the specification of air-conditioners. Do not overextend the hose or replace it with other different hoses as this may affect the operation of the air-conditioner. The exhausts must be clear from all obstructions to avoid overheating.

Operation

Control Panel



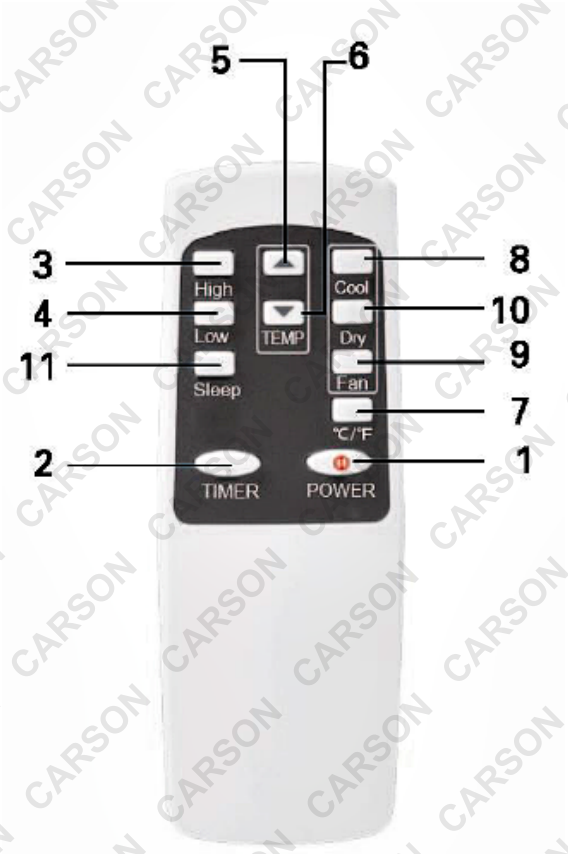
No.	Name	No.	Name
1	ON/OFF Button	**11**	Cool indicator
2	Mode Button	**12**	Dehumidify indicator
3	Up/Down Button	**13**	Fan indicator
4	Fan Button	**14**	Sleep mode indicator
5	Timer Button	**15**	Remote control sensor location
6	Display screen		
7	Temperature indicator		
8	Timer indicator		
9	High/Low indicator		
10	Water Full indicator		

Operating Instructions

- When the unit is turned ON for the first time, the buzzer will play a short music and the Display screen will show the ambient temperature value. The temperature display range is 10 – 35°C. The unit will then enter standby mode.
- **ON/OFF button**: Press this to turn the unit ON or OFF. When the unit is turned ON for the first time, the unit enters cooling mode and the fan speed is set to high. The unit adjusts its temperature setting to 24°C. The unit will play a short music when it is turned ON or OFF.
- **Mode Button**: Press this button to switch to and from cooling, air supplying, and drying modes. While mode is being selected, indicator lights corresponding to cooling, air supplying, and drying mode will light up.
  - *Cooling mode*: Press Mode Button or COOL to choose this mode. In this mode, press the Up/Down Button to set your preferred temperature. The temperature range is 1 – 30°C. Pressing this button once will make the temperature rise or fall to 1°C at a time. Press the Fan or High/Low button to set your preferred fan speed. Press the Timer and Down Buttons together or Sleep button to choose Sleep mode. While in this mode, the temperature will rise to 1°C automatically after the unit operates for 2 hours. After operating for another 2 hours, the temperature will rise to 1°C again. After that, the setting temperature will not change anymore.
  - *Dry mode*: If ambient temperature is greater than or equal to 17°C, the compressor will start-up. The unit is then controlled in the following manner: when the ambient temperature is less than or equal to 15°C, the compressor will turn OFF. When the ambient temperature rises (≥ 17°C), the compressor will turn ON again. The starting and stopping of the compressor meets the requirement for the 3-minute protection time. The fan is forced to switch to low level.
  - *Air Supply mode*: Only the fan motor works. The display screen will only show the ambient temperature. Temperature settings cannot be changed. The unit can re-direct its airflow at various angles.
- **Fan button**: Fan may operate in the following manners:
  - In Cooling mode (except Sleep mode) and Air Supply mode: high-low-high-…and so on.
  - Switching among Cooling, Air Supplying and Drying modes: maintain fan speed of previous modes.
- **Timer button**:
  - Upon start-up, press the Timer button to enter a timed shutdown. Upon shutdown, press this button to enter a timed start. Meanwhile, the timer indicator will illuminate.
  - Press the Timer button to enter the timing function (timed start/timed shutdown). Adjust the up or down button to set the timing countdown. The time will cycle in the order of 1-2-3-… 24-0-1 hours or 24-23-22-… 1-0-24 hours. The adjustment time of the timing function is relative time.
  - After timed start has been set, the unit will start-up once the start time has been reached. Meanwhile, the timer indicator will turn OFF and ambient temperature is displayed on the display screen.
  - After the time for shutdown is set, the unit will shut down once the shutdown time has been reached. Meanwhile, the timer indicator will turn OFF and ambient temperature is displayed on the display screen.
  - Only the last setting of the timing function is valid and will only be valid once.
  - ON/OFF operations from buttons or remote control will clear all timing settings.
  - Once the time is determined, it is possible to show the remaining start/shutdown time if the timer button is pressed once. If the timer button is pressed twice, continuously within 5 seconds, it will cancel timing.
- **Up and Down button**: Can be used to change the set value of the temperature. Press the up or down button when displaying the value of the ambient temperature and the ambient temperature value display area will change to display the set value of temperature (the unit will not respond to this operation in the Air Supply and Dry modes).
  - In the Cooling mode, the temperature setting range is from 16 – 30°C.

– Press the Up and Down buttons simultaneously to switch between Fahrenheit and Celsius. When Celsius has been chosen, the Celsius degree indicator will illuminate.

Remote Control



1. **Power button**: Press this button to turn the unit ON/OFF.
2. **Timer button**: When the unit is turned OFF, press this button to set the time for the unit to turn ON. When the unit is turned ON, press this button to set the time for the unit to turn OFF.
3. **High button**: Press this button to allow the unit to operate in a high fan speed state (except in Dry and Sleep modes).
4. **Low button**: Press this button to allow the unit to operate in a low fan speed state.
5. **Up button**: Press this button to increase the temperature and time.
6. **Down button**: Press this button to decrease the temperature and time.
7. **°C/°F button**: Press this button to switch between Celsius and Fahrenheit.
8. **Cool button**: Press this button to set the unit to operate in Cooling mode.
9. **Fan button**: Press this button to set this unit to operate in Air Supply mode.
10. **Dry button**: Press this button to set this unit to operate in Dry mode.
11. **Sleep mode**: Press this button to set this unit to operate in Sleep mode.

Multiple Protection Functions

Anti-Freeze Protection

Upon cooling, when the compressors operate continuously for more than 10 minutes and if the pipe temperature is less than or equal to 2°C continuously for 20 seconds, the compressor and water spraying motor will turn off, other loads will operate and the LED will display **E4**. The unit will then initiate the anti-frost protection function and the buttons will be inactive (except the OFF button). Once the pipe temperature is greater than or equal to 8°C, the protection function is then relieved, original status is restored and the unit will meet the requirements for 3-minute delay protection of the compressor.

Full Water Protection

When the water in the water tray exceeds the recommended level, the unit will automatically sound an alarm and the full water indicator will light-up. If this happens, the condensation needs to be manually drained from the unit. If not, the unit will shut down automatically after the buzzer gives off 5 beeps. (For more information, please see "Water Drainage" section). If the unit is not shut down manually, the unit will be restored to the previous operating status automatically once the water is fully drained. Or the power may be turned ON again to start the unit.

Delay Protection

This unit offers a restart protection for the compressor. Except that the compressor may start immediately when the unit is turned ON for the first time, there is a 3-minute delay start protection after the compressor is turned OFF.

Water Drainage

Manual Drain

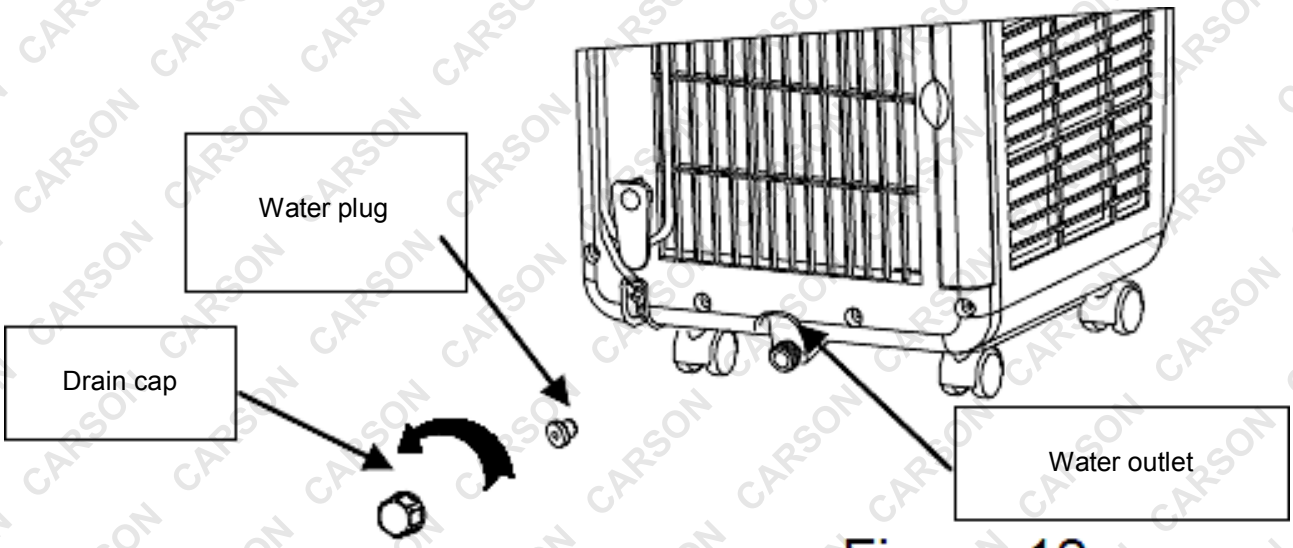


Figure 12

1. Once the unit shuts down when the water tray is full, turn OFF the unit and then unplug it.

NOTE: Move the unit carefully to avoid spilling water from the water tray.

2. Put the tray that holds water below the water outlet at the back of the unit.
3. Screw off the drain cap, unplug the water plug and water will flow into the tray that holds water automatically.

NOTE: • Protect the drain cap and water plug properly. • Tilt the unit slightly backward when draining. • If the tray cannot hold all the water in the unit, block the water outlet with the water plug before the tray becomes full to prevent the water from flowing onto the ground.

4. Once the water is fully drained, insert the water plug and screw on the water cap tightly.

NOTE: Turn ON the unit only after the water plug and drain cap are installed properly. Otherwise, water will flow onto the ground.

Continuous Drainage

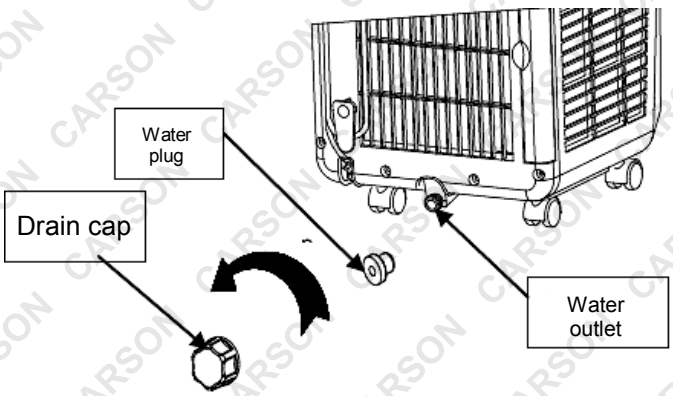


Figure 13

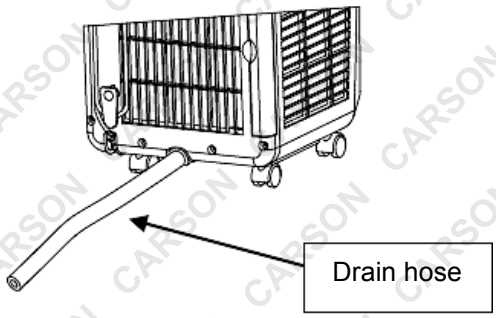


Figure 14

1. Screw off the water cap in the direction shown above and then remove the water plug (Figure 13).
2. Insert the OD 13mm PVC drain hose (8-10mm) into the water outlet (Figure 14).
3. Connect the drain hose to a drainage or outside.

NOTE: • The drain hose must be installed only when there is no water in the tray. • When in Cooling mode, it is not recommended that continuous drain be set far from the unit when in use. This is to ensure that there will be water for the condenser and enhance the cooling effects of the unit. • When operating in Heating mode, use continuous drain to avoid prematurely shutting down the unit due to the water tray becoming full.

4. Put the drain hose in an inaccessible place at a height below the water outlet and keep the drain hose free from kinks and bends.
5. When continuous drain is in use, secure the drain cap and water plug properly.

Maintenance

Turn the unit OFF and unplug it before attempting any maintenance and servicing.

Surface Cleaning

Clean the surface of the unit with a soft, wet cloth. Do not use chemical solvents such as alcohol and gasoline. Otherwise, the surface of the air-conditioner may be damaged and could even damage the whole unit.

Cleaning the Filter Frame and Filter Mesh

Clean the filter mesh once every two weeks. If the filter frame and filter mesh are clogged with dust and dirt, the performance of the air-conditioner may decrease.

1. Hold onto the gripping position of the evaporator filter and the condenser filter frames and take out the filter frame gently in the direction shown by the arrow (as shown in Figure 15).
2. Hold onto the gripping position of the evaporator filter and condenser filter meshes and take out the filter mesh gently in the direction shown by the arrow (as shown in Figure 16).

NOTE: When taking out the filter frame or filter mesh, apply an even force to avoid twisting or damaging the filter frame or filter mesh. Be sure to take out the filter frame first and then take out the filter mesh.

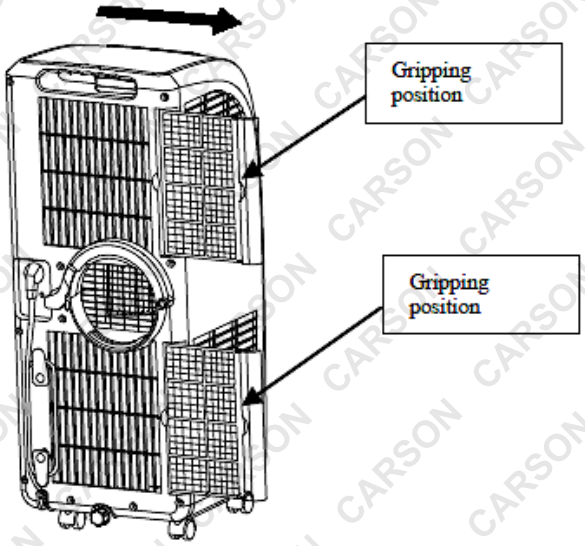


Figure 15

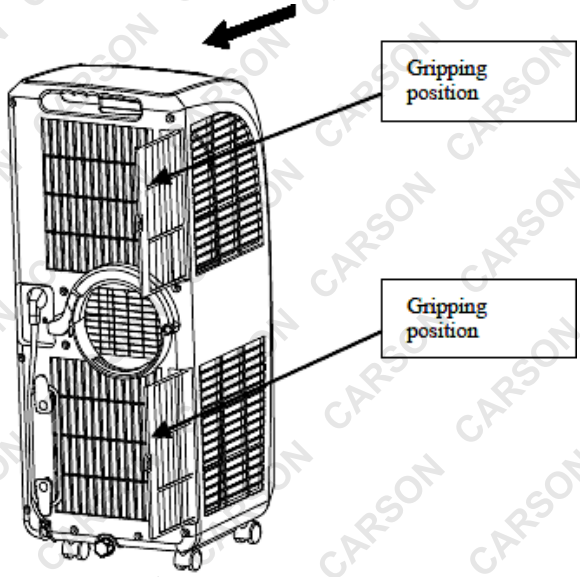


Figure 16

3. Put the evaporator filter frame, condenser filter frame, evaporator filter mesh, and condenser filter mesh in warm water (about 40°C) and add a neutral cleaner. Clean them gently and air dry in a shady area.

NOTE: Careful not to damage the mesh fabric of the filter frame and filter mesh.

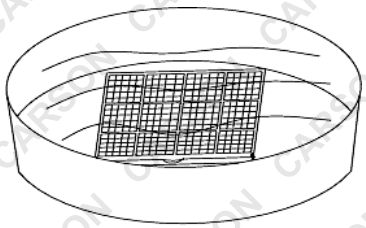


Figure 17

Re-Installing the Filter Frame and Filter Mesh

IMPORTANT: Install the filter mesh first and then install the filter frame.

1. To install the evaporator filter mesh and condenser filter mesh, point the back end of the filter mesh towards the socket and then push the filter mesh evenly and gently into the socket.

   NOTE: • Install the filter mesh in the reverse order of removal. The filter mesh must be installed first. • Install the filter mesh gently so as not to damage it.

2. To install the evaporator filter frame and condenser filter frame, point the back end of the filter frame towards the socket and then push the filter frame evenly and gently into the socket.

Cleaning the Handles and Remote Control Storage Area

1. Take the remote control out of its storage area in the direction shown by the arrow (Figure 18).

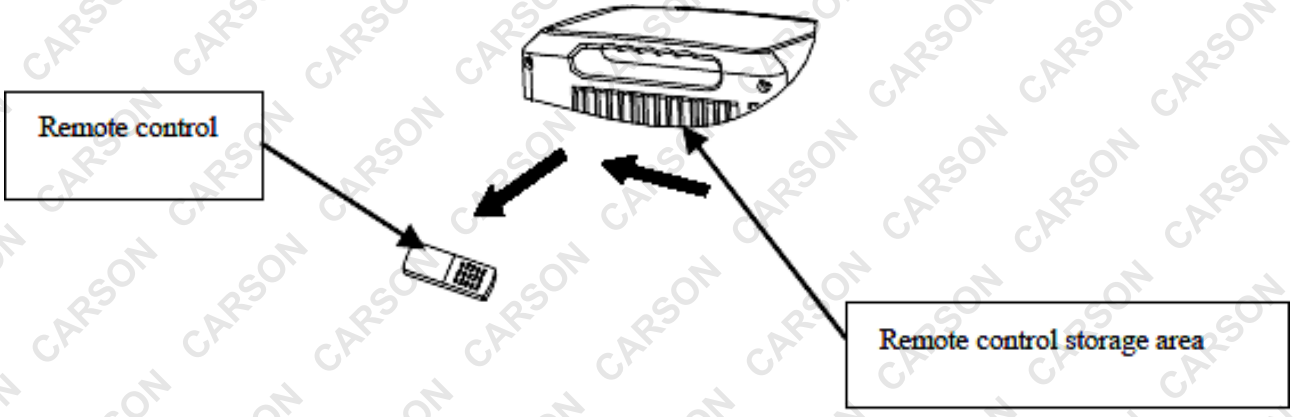


Figure 18

2. Clean the handles and remote control storage area with a damp, soft cloth.

   NOTE: Wring out any excess water from the cloth. Do not drip water into the unit.

3. If the remote control needs to be put back into the remote control storage area, put it back into the storage area in the reverse direction of removal as shown in Figure 18 above.

Handling the Unit

To handle or move the unit, hold the top of the air outlet of the front shell with one hand and the handle position at the top of the back shell with another hand, and leave the unit in an upright position (as shown in Figure 19).

NOTE: • Do not hold the horizontal louvre by hand. • Leave the unit in an upright position when handling or moving it. • To handle or move the unit, drain the water in the unit first to prevent water in the unit from flowing onto the ground. • If the remote control is in the position of the handle, take out the remote control first.

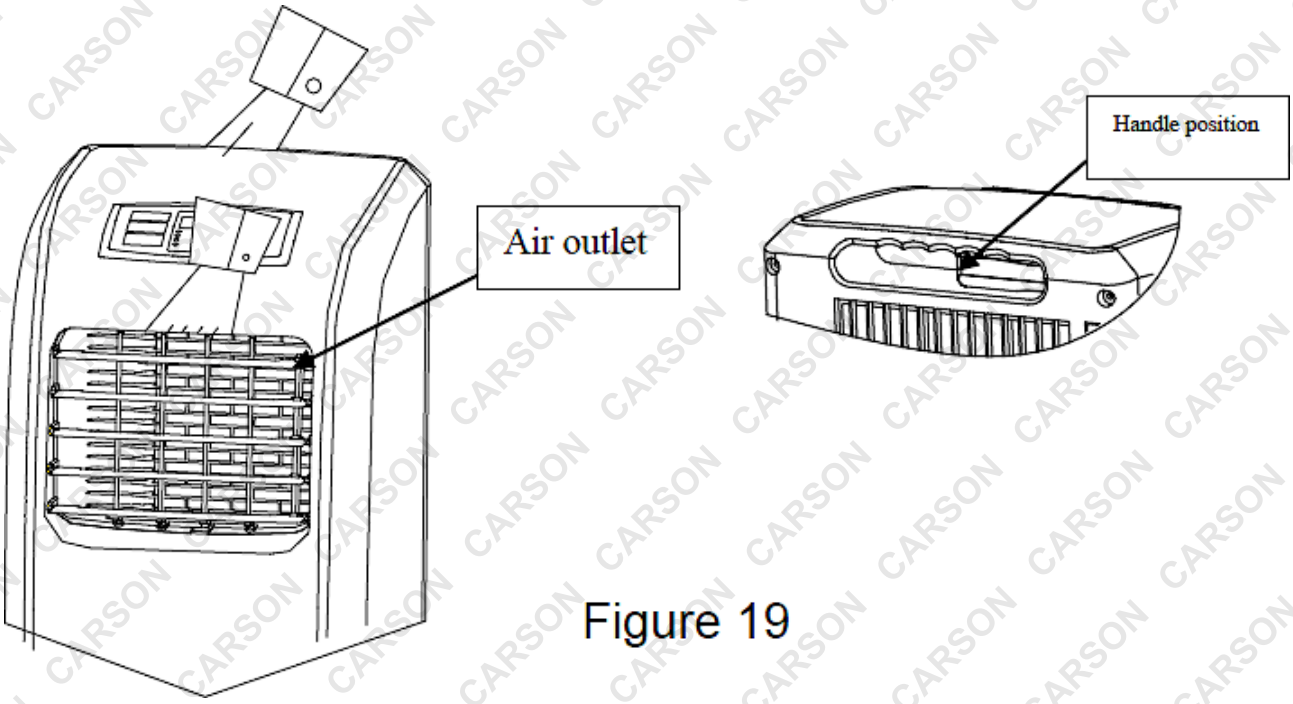


Figure 19

Storage

1. Screw off the drain cap, unplug the water plug and drain the water in the water tray to another container that holds water.
2. Start the unit, turn the mode to the Low Fan Speed state of the Air Supply mode. Keep this state for half a day and dry the interior of the unit to prevent moulds from forming.
3. Turn the unit OFF, unplug the power plug, wrap the power cord around the wire-winding post, insert the plug into the universal jack at the back shell of the unit and re-install the water plug and drain cap.
4. Remove the heat exhaust hose assembly and store it properly in a cool, dry place.

NOTE: To remove the heat exhaust hose assembly, hold the handle of the C-shape buckle of the heat exhaust hose by hand, pull the C-shape buckle outward evenly, rotate the C-shape buckle of the heat exhaust hose clockwise once the buckle is separated from the snap position of the C-shape buckle of the back shell and then take out the heat exhaust hose assembly.

---

5. Pack the air-conditioner properly with a soft plastic bag, put the unit in a dry place and take appropriate dust-proof measures, and keep the unit out of reach of children.
6. Take out the batteries of the remote control and store it properly in a cool, dry place.

NOTE: Ensure that the unit is stored in a cool, dry place. All accessories of the unit should also be stored properly.

Troubleshooting

Never repair or remove parts from the air-conditioner by yourself. Faulty repair will void the warranty and may be dangerous to you and to others. If you encounter any of the problems listed in the table below or the recommended solution does not work, contact an authorised technician.

Problem/fault indication	Cause	Solution
The air-conditioner isn't working	No power.	Connect the unit to a live socket and turn it on.
	Is the full water indicator flashing?	Drain the water stored in the unit.
	Is the ambient temperature too low?	It is recommended that this unit should be operated between 10 – 35°C.
	The room temperature is lower than the set temperature in the cooling mode.	Change the set temperature.
Bad cooling or heating effects	There is direct sunlight.	Cover up the source of direct sunlight or transfer the unit to a shadier location.
	The doors and windows are open, the room is crowded or there are other heat sources in Cooling mode.	Close the doors and windows and add new air-conditioners
	Filter mesh is very dirty.	Clean or replace the filter mesh.
	Air inlet or air outlet is clogged.	Remove the obstruction.
Loud noise	Air-conditioner is place on an uneven surface.	Put the air-conditioner on a firm, flat surface (may reduce noise).
The compressor does not work	Overheat protection has been activated.	Wait for 3 minutes until the temperature decreases and then turn the unit ON again.
The remote control isn't working	Too far from the air-conditioner	Bring the remote control closer to the air-conditioner and ensure that the remote control is pointing towards the receiving head of the remote control.
	The remote control isn't pointing towards the receiving head of the remote control.	
	The batteries have no more charge in them.	Replace the batteries.
Display E1	Pipe temperature sensor failure.	Check the pipe temperature sensor and related circuitries.
Display E2	Room temperature sensor failure.	Check the room temperature sensor and related circuitries.
Display E4	Anti-freeze protection activated.	Restore previous functions automatically once unit has been de-frozen.
Full water indicator is flashing	The baseplate is already fully filled with water.	Drain the water in the baseplate.

Specifications

Model	PA210
Cooling Capacity	4.4kW (15000BTU)
Noise level	55dB
Refrigerant	R410A
Airflow Volume	350m³/h
Input voltage	240V AC
Power Plug	Australian Standard (10Amp)

**The frequency of emptying water is dependent on the level of humidity in the air and also the mode the unit is operating in e.g. the dehumidify function will require more frequent emptying.*

Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.