

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described.

Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and / or property damage! Retain instructions for future reference.

AMERICOOOL by WELTEM

Water Cooled Portable air Conditioner

Description

Americool Portable Air Conditioners feature spot cooling for large areas

where cooling of the entire area is not practical. A dedicated spot cooling thermostat controls the unit in this application. These air conditioners can also be used in smaller areas for room cooling.

A control panel provides ease of use and contains a self-diagnostic function and display, showing operating modes, room and set temperatures, and faults. If an abnormal operation occurs, a visual display of the fault is shown. Caster wheels are included for easy portability.

Suitable applications include: a factory or work place, industrial kitchen, computer room, emergency cooling, outdoor event, etc.



WPW-4000SR

Figure 1

Unpacking

After unpacking the unit, carefully inspect unit for any damage that may have occurred during transit. Check for any loose, missing, or damaged parts.

Specifications

Model No.	Power Supply Ph-V-Hz	Cooling Capacity Btu/h	Power Consumption Watts	Rated Current Amps	EER Btu/Wh
WPW-4000SR	Single Phase, 115V, 60Hz	16,900	870	7.75	19.4
Model No.	Nema Plug	Power Cord Gauge AWG	Power Cord Length ft	Dimensions W x D x H - in. (mm)	
WPW-4000SR	5-15P	14	10	27.7x13.7x38.1 (703 x 349 x 969)	

Specifications

Model No.	Weight (Net / Gross) Lbs(kg)	Setting temperature (Room cool mode) °F(°C)	Setting temperature (Spot cool mode) °F(°C)
WPW-4000SR	150 / 181 lbs. (68 / 82 kg)	64~86 (18~30)	32~86 (0~30)
Model No.	Application Area (Room cool mode) ft ² (m ²)	Refrigerant Type / oz(g)	Design Pressure - Hi/Low Psig
WPW-4000SR	433.7 (38)	R32 / 19.4 (550)	450 / 250
Model No.	Indoor Air Flow (High) CFM	Water Out Flow LPM	Water supply pressure
WPW-4000SR	355.6	4.4	Minimum : 2Kgf/cm ² (28.4 psi) More than Maximum : 10Kgf/cm ² (142 psi)
Safety Devices	Compressor overload protector, Anti-freezing thermister, Full drain tank switch, Automatic restart (Power interruption), Compressor time delay program, High pressure switch, Auto water adjust valve.		
Features	Temperature control, Self-diagnostic function, Two speed fan, Optional drain pump kit, Washable filters, °F(°C) display, Off-timer		

Thank you for selecting this Weltem by Weltem Water-cooled Portable air Conditioner. It provides you with spot cooling for large areas where cooling of an entire area is not practical or possible. Please read this manual before installing the WPW-4000SR as it provides important information that should be followed during installation and maintenance of the Water-cooled Portable Conditioner, allowing you to correctly set up your system for the maximum safety and performance. Included is information on customer support and service, if it is required.

If you experience a problem with the unit, please refer to the Troubleshooting section in this manual to correct the problem. If the problem is not corrected, please collect information so that the Technical Support personnel can more effectively assist you.

General Safety Information

Please read this manual carefully for instructions on correct installation and usage. Please read all safeguards.

1. Transport and store the unit in and upright position only. Leave unit in an upright position for at least 3 hours before first use.
2. Always place and use in the upright position the unit on an even, level surface.
3. Ensure the unit is connected to a grounded power supply of the correct rating / capacity.
4. The unit will cool when the room temperature is between 18°C (64.4°F) ~ 50°C (122°F) depending on the thermostat setting.
5. DO NOT use this unit for functions other than those described in this instruction manual.
6. DO NOT tilt the unit.
7. DO NOT cover or obstruct the unit's inlet and outlet grilles.
8. DO NOT use the unit in areas where it will be exposed to rain or water.
9. NEVER unplug the while it is operating.

▲ WARNING ***DO NOT use the unit in wet environments, such as a laundry room, to avoid the risk of electrical shock.***

10. DO NOT place any foreign objects on the unit.
11. DO NOT operate the unit with wet or damp hands.
12. DO NOT allow chemical substances to come into contact with the unit.
13. DO NOT operate the unit in the presence of flammable substances or vapors such as alcohols, pesticides, gasoline, etc.

▲ WARNING ***DO NOT operate the unit in explosive or flammable environments.***

14. DO NOT use the plug to start and to stop the unit. Always use the control panel to start and to stop the unit.
15. Always turn off the unit when it is not in use and unplug the power plug from the electrical outlet.
16. Always turn the unit off and unplug the main power plug from the electrical outlet before cleaning, moving or performing maintenance,
17. AVOID the use of adapter plugs or extension cords. If it is necessary to use an extension cord or an adapter plug to operate the unit, ensure that they are correctly rated for the application. Consult a local qualified electrician and all local electrical codes to ensure proper setup. Any extension cord used with this device must be rated for a minimum of 15A.
18. DO NOT unplug the unit by pulling on the electrical cord. Keep electrical cord away from heat sources and always completely unroll the cord to avoid overheating. If the power cord becomes damaged, a qualified service agent, qualified electrician, or similarly qualified person must replace it, in order to avoid a hazard or shock.

▲ WARNING ***DO NOT operate a unit with a damaged power cord.***

19. The filters must be used with the product at all times. When the filters are removed for cleaning, always ensure that the unit has been turned off and unplugged from the electrical outlet.

20. Regularly clean the filters to maintain efficiency. If the filters are not cleaned regularly, the unit output performance and efficiency will decline and energy consumption will increase.
21. DO NOT operate the unit with a damaged power cord or plug, after it malfunctions, has been dropped or damaged.
22. Only use in the upright position on an even, flat surface. Unit must be positioned at least 24 inches (60cm) from the nearest object in air inlet.
23. DO NOT use while water leak or cut off water.
24. If water supply volume is small, the unit is not operated properly and main component can get damaged.
25. Stop operation immediately if abnormal noise or odor is noticed. Contact a local service center.
26. Appliance is not used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
27. Children being supervised not to play with appliance.
28. That the appliance shall be installed in accordance with national wiring regulations.
29. 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.

SAVE THESE INSTRUCTIONS.

WARNING



This symbol means to read the instruction manual carefully.



This symbol indicates that information is provided, such as in the user manual or installation manual.



This symbol means that this appliance uses a flammable refrigerant. There is a risk of fire if refrigerant leaks and is exposed to an external ignition source.



This symbol means that service personnel must refer to the installation instructions when handling this equipment.

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.)
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.

General

- The installation of pipe-work shall be kept to a minimum.
- National gas regulations shall be observed.
- Mechanical connections shall be accessible for maintenance purpose.
- The appliance shall be stored in a well-ventilated area.
- Keep any required ventilation openings clear of obstruction.

Unventilated areas

- The appliance shall be stored so as to prevent mechanical damage from occurring.
- When storing the appliance, do not put in a room with any open flame appliance (for example an operating gas appliance) or other potential ignition sources (for example an operating electric heater, hot surfaces).
- Damaged units should be repaired before storage.

Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

Work procedure

Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided.

Qualification of workers

- Use caution while handling and prevent damage to unit. Do not put any holes into product for any reason. This can cause damage to product and prevent unit from cooling.
- Service should only be performed by technicians properly trained and certified in the use of flammable refrigerants. Any service performed by unauthorized servicers/individuals will void all warranties.
- Maintenance and cleaning of unit should be performed by trained personnel. Failure to properly clean unit can result in damage to the refrigeration system and or the electrical system.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- The refrigerant and insulation blowing gas used in the appliance require special disposal procedures. Consult a service agent or a similarly qualified person before disposing of them.
- Any person who is involved with working on or breaking into a refrigerant circuit or opening of sealed components or opening of ventilated enclosures should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.

Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. nonsparking, adequately sealed or intrinsically safe.

Presence of fire extinguisher

If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.

No ignition sources

No person carrying out work in relation to a refrigerating system which involves exposing any pipe work shall use any sources of ignition in such a manner that it can lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere

Checks to the refrigerating equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer's technical department for assistance.

The following checks shall be applied to installations using flammable refrigerants:

- the refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed;
- the ventilation machinery and outlets are operating adequately and are not obstructed;
- if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which can corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.

If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include:

- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

Sealed electrical components shall be replaced.

Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

Repair to intrinsically safe components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.

Intrinsically safe components must be replaced.

Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

Cabling

cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

Detection of flammable refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

The following leak detection methods are deemed acceptable for all refrigerant systems.

Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.)

Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.

Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25% maximum) is confirmed.

NOTE Examples of leak detection methods are

- bubble method,
- fluorescent agent method.

If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak.

Removal and evacuation

When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to:

- evacuate;
- purge the circuit with inert gas (optional for A2L);
- evacuate (optional for A2L);
- continuously flush or purge with inert gas when using flame to open circuit; and
- open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

Labelling

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum (optional for A2L). This process shall be repeated until no refrigerant is within the system

(optional for A2L). When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.

The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be available.

Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

- a) Become familiar with the equipment and its operation.
- b) Isolate system electrically.
- c) Before attempting the procedure, ensure that:
 - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
 - all personal protective equipment is available and being used correctly;
 - the recovery process is supervised at all times by a competent person;
 - recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.

- g) Start the recovery machine and operate in accordance with manufacturer's instructions.
- h) Do not overfill cylinders. (No more than 80 % volume liquid charge).
- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and

labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of the flammable refrigerant. If in doubt, the manufacturer should be consulted. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept upright.
- Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigeration system.

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

Assembly

Component Parts

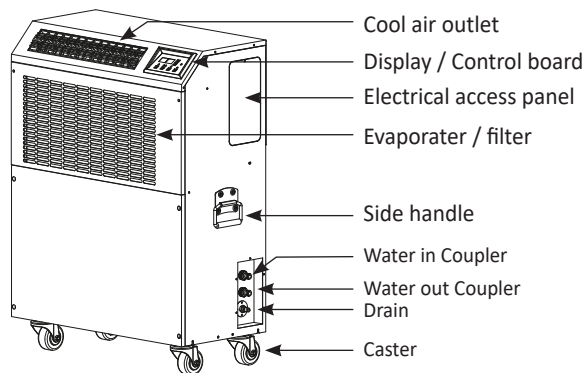


Figure 2 - Front and Right Side View

1. Take out the cord holder from the accessory box.
2. Place the cord holder on the left side of unit.
3. Use screws (enclosed inside of accessory box with cord holder) to install the cord holder in the unit as shown in Figure 3.

Outlet to remove the remaining water

It is an outlet that removes the remaining water to prevent freezing in winter when stored for a long time.

Hook up the hose to remove the water. After the water comes out from the unit completely, press the blue part and pull the hose to remove it.

However, never use exhaust port when using the product.

Power cord holder

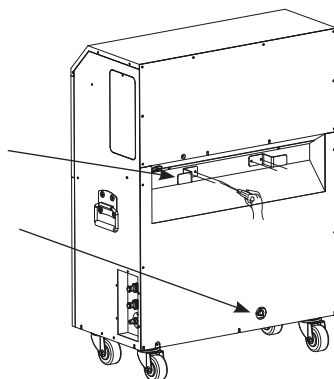
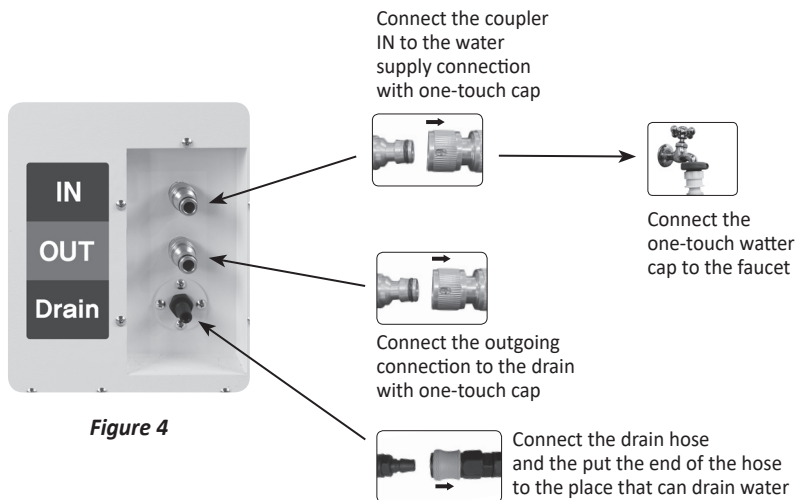


Figure 3 - Back and Left Side View

Connection of inlet / Outlet hoses

1. Take out the hose 2 pcs from the accessory box (16.4ft each).
2. Connect the hoses carefully not to switch inlet and outlet hoses



⚠ WARNING

1. When using a hose, AVOID sharp corners, hot water pipes and interruption the water flow of supply and discharge lines.
2. After finished connecting hose, open valve of water supply and provide water to unit.
3. The new hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.

Installation

WARNINGS REGARDING PROPER LOCATION FOR INSTALLATION

▲ WARNING

Do not use the unit in explosive environments or in areas where flammable gas leakage may occur.

▲ WARNING

Do not use the unit in areas where it will be exposed to rain or water.

▲ WARNING

Do not use the unit in a corrosive atmosphere.

▲ WARNING

Do not use the unit above 18°C(64°F) ~ 50°C(122°F).

▲ WARNING

Do not install the unit on uneven or sloping surface. The unit may roll or topple over even if the casters are set to the locked position.

MOVING THE UNIT

Unlock the casters and push the unit using the side handles to a flat, level surface and set the caster brakes to the locked position.

PLUGGING IN THE UNIT

Check the prongs and surface of the power cord plug for dust/dirt. If dust and/or dirt are present, wipe off with a clean, dry cloth.

Check the power cord, plug and prongs for damage or excess play.

If any damage or excess play is found, contact a qualified repair technician or a qualified electrician to perform replacement or repair of the power cord, plug or prongs.

▲ WARNING

If the power cord or plug is damaged, repair should only be performed by qualified electrical personnel.

▲ WARNING

Do not connect / disconnect the power cord or attempt to operate buttons with wet hands. This could result in electrical shock.

NOTE: Make sure the AC outlet is free of dirt, dust, oil, water, or any other foreign material. The unit is equipped with an approved NEMA plug configuration. (WPW-4000SR: 5-15P) The appropriate outlet must be used for each plug type.

Operation

CONTROL PANEL

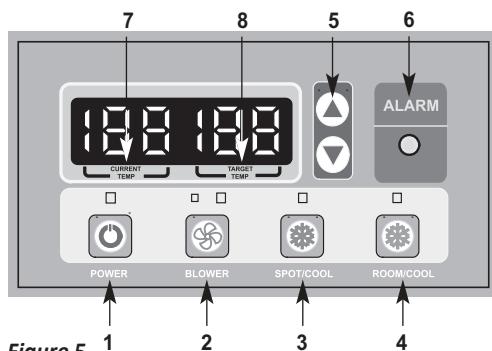


Figure 5

1. **POWER BUTTON:** Activates unit when POWER BUTTON is pressed (Fan starts on high speed). If power button is pressed during operation, unit stops.
2. **BLOWER BUTTON:** Changes fan speed from (Low) to (High) when pressed.
3. **SPOT/COOL BUTTON:** Activates compressor and begins producing cool air 5 seconds after button is pressed. Regulates temperature based on outlet cool air temperature.
4. **ROOM/COOL BUTTON:** Activates compressor and produces cool air 5 seconds after button is pressed. Regulates temperature based on inlet ambient air temperature.
5. **SET TEMP BUTTONS:** Change target temperature/data value by +/- 1.
Press the SET TEMP BUTTONS to set temperature.
Upper button is to heighten temperature and Lower button is to lower temperature.
6. **ALARM:** Alarm indicator lights (blinks) and indicates abnormal system operation.
If Alarm occurs, only Eva fan activates. System operation stops when ALARM light is activated (blinks) longer than 3 minutes.
7. **CURRENT TEMP:** Displays current room temperature in display in Fahrenheit. (In Room Cool Mode only). SPOT/COOL Mode – Displays outlet (cool air) temperature during normal operations. In order to change °F to °C, press SPOT/COOL and ROOM/COOL buttons together for 2 seconds. C will blink 2 times and Figure will change to °C. ALARM codes blink and are displayed when abnormal operation occurs.

NOTE: Canadian version shows the temperature in Celsius first when you turn on the unit.

8. **TARGET TEMP:** Displays the unit set temperature for ROOM/COOL mode only.

OFF-TIMER: Enter to Timer Setting Mode if you press BLOWER Button and SPOT/COOL Button together for 1 seconds. Press UP/DOWN Button to set the timer until it shows the figure you want to set. After 5 seconds, the figure will be memorized and the compressor will stop after the time set.

AUTO RESTART: If the unit goes off due to an electrical interruption, the unit will automatically restart when the power resumes.

Maintenance

FILTER CLEANING

There is 1 evaporator filter in front of the unit.

1. loosen up 2 bolts on the front filter guard.
2. Slide filter up and use a vacuum cleaner to remove the dust from the filter.
3. If the filter is heavily covered with dust and dirt, warm water and mild soap or neutral detergent may be used to wash the filter. Do not use any other chemicals to clean filter, as they will likely damage the filter.
4. Dry the filter in a shaded area before replacing it. Do not operate the unit without the filter installed and the filter guard in the closed position.
5. Replace the clean filter and close the filter guard.

NOTE : For effective cooling clean the filter at least every 2 weeks.

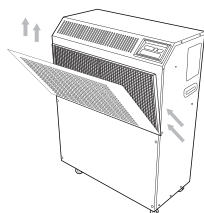


Figure 6 – Removing Filters

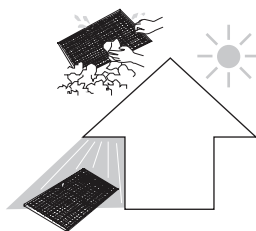


Figure 7 – Removal of Dust

- Remove dust from the filter using a vacuum cleaner hose attachment.
- If required wash the filter in lukewarm water with a mild detergent. Leave to dry in a shaded area before reinstalling.

▲ WARNING

Do not operate without the filter fitted.

▲ WARNING

Do not operate the unit with a damaged cord or plug, after the unit malfunctions, or if the unit has been dropped or damaged.

- For your convenience, record the complete model number and product name (located on the Product Identification Plate), the purchase date, purchase location, serial number, and warranty period in the table below.
- Also, attach your purchase receipt as proof of purchase to this instruction manual for future reference.
- To ensure your product is covered by warranty, the complete faulty product along with your original purchase receipt must be provided at the place of purchase.
- To ensure your product is covered by warranty, the complete faulty product along with your original purchase receipt must be provided at the place of purchase.

Product	Portable Air Conditioner
Model No.	_____
Date of Purchase	_____
Place of Purchase	_____
Serial No.	_____
Period of Warranty	_____

Customer: Please read and keep this manual for future reference and keep sales receipt as proof of purchase.

SELF-DIAGNOSTIC CODES *(See Table 1)*

If abnormal operation occurs, an alarm light will be activated and a code will be displayed on the control panel. The compressor and condenser fan motor will stop operating. The evaporator fan will continue to run for 3 minutes. If the fault is rectified within 3 minutes, the unit will resume operation. If the fault persists for more than 3 minutes, the evaporator fan also stops. The fault must be rectified before the unit can resume normal operation.

SELF-DIAGNOSTIC ALARM CODES			
Alarm Display	Problem	Cause	Corrective Action
	Frost prevention sensor and Abnormal temperature sensor value	- Indoor heat exchanger temperature too low - TH3 temperature sensor has a loose or broken connection	- Do not use the air conditioner if ambient temperature is lower than 18°C (64°F) - Contact a qualified service agent
	Refrigerant high pressure switch	- Blocked air filter - Blocked / kinked exhaust duct - Ambient temperature is too high	- Clean air filter - Ensure exhaust duct is not blocked / kinked - Do not use the air conditioner if ambient temperature is higher than 45°C (113°F)
	Abnormal temperature sensor value	TH1(Outlet) temperature sensor has a loose or broken connection	Contact a qualified service agent
	Abnormal temperature sensor value	TH2(Inlet) temperature sensor has a loose or broken connection	Contact a qualified service agent
	Compressor overloaded	- Ambient temperature is too high - Unstable voltage supply - Defective compressor	- Do not use the air conditioner if ambient temperature is higher than 45°C (113°F) - Contact a qualified service agent - Replace compressor
	Condensate water level alarm	Condensate tank is full	- Empty the water tank - After installation of the water tank, press the SPOT/COOL or ROOM/COOL button to resume operation
	Drain pump alarm	Drain pump defective or improper hose connection (including kink or blockage)	- Check the hose connection and hose - Replace drain pump

Table 1- Alarm Codes

Wiring Diagram

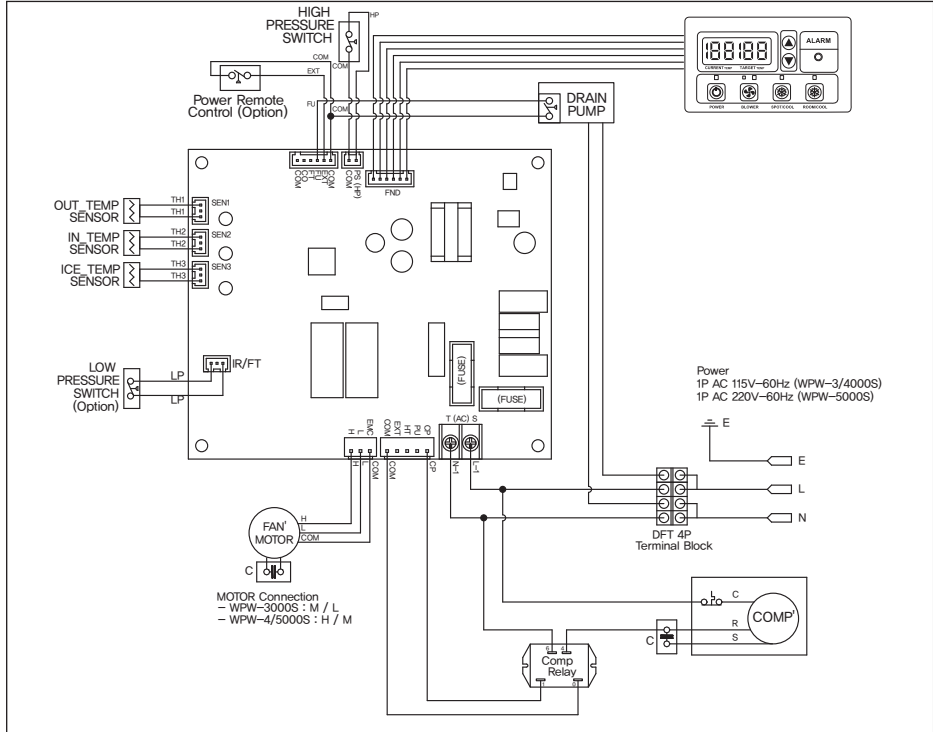


Figure 8 - Circuit Wiring Diagram

Troubleshooting chart

Symptom	Possible Cause(s)	Corrective Action
Water leakage	High water level in condensate tank	1. Remove blockage from drain hose
The unit doesn't work	1. Check the power supply to verify that power is available to the unit	1. Reset the circuit breaker and restart the unit
	2. Verify that the power cord is connected	2. Connect power cord
No cold air flows from the cold air outlet	1. Ambient air cannot be properly cooled if the filter is dirty and not regularly cleaned	1. Clean the filter
	2. Compressor will not work if the unit is turned off and on quickly.	2. Wait 2 minutes after unit is turned off before turning the unit back on.
	3. The ambient air temperature may be too high	3. The temperature of the compressor can be higher when the ambient temperature is too high. The compressor will not work unless the ambient air temperature is within the acceptable operating range of the unit
Water flow can be heard after compressor shuts off	No cause	Common to hear coolant flowing after unit shuts off

※ A defective unit must be repaired by a qualified company.

SHIPPING LIST

- (1) PORTABLE AIR CONDRIIONER
- (1) Owner's Manual
- (1) POWER CORD HOLDER
- (3) Water Inlet & outlet Hose

OBTAINING SERVICE

If the AmeriCool by Weltem Portable Air Conditioner requires Service:

1. Use the TROUBLESHOOTING section in this manual to eliminate obvious causes.
2. Verify there are no circuit breakers tripped.
3. Call your dealer for assistance. If you cannot reach your dealer, or if they cannot resolve the problem, call AmeriCool by Weltem Portable Air Conditioner Technical Support at 562.231.7175. Please have the following information available BEFORE calling the Technical Support Department:
 - a. Your name and address.
 - b. The serial number of the unit.
 - c. Where and when the unit was purchased.
 - d. All of the model information about your AmeriCool by Weltem Portable Air Conditioner.
 - e. Any information on the failure, including LED's that may or may not be illuminated.
 - f. A description of the protected equipment, including model numbers if possible.

LIMITED WARRANTY

AmeriCool warrants all AmeriCool products to be free from defects in materials or workmanship, under normal use and service, for a period of 12 months from the date of purchase to the end user (original invoice must be provided). AmeriCool warrants that the compressor will be free from defects in materials and workmanship for 12 months from the date of purchase to the end user.

AmeriCool's obligation under this warranty is limited to the repair or replacement at its option, of any part or parts, which, upon AmeriCool's examination are shown to be defective, or at AmeriCool's option, the return of the purchase price to the purchaser.

Correction of such defects by repair or replacement, or at AmeriCool's option, the return of the purchase price shall constitute fulfillment of warranty obligations to the purchaser. This warranty does not cover defects or malfunctions which result from causes beyond AmeriCool's control, including, without limitation, (i) unusual physical or electrical stress; (ii) accident, neglect, abuse, misuse or other abnormal use; (iii) failure to perform routine maintenance in accordance with AmeriCool's recommended procedures; (iv) normal wear and tear; (v) repairs or attempted repairs by an unauthorized person; (vi) modifications or alterations to the Products; (vii) use with parts or devices not supplied or approved by AmeriCool (viii) improper installation or service; (ix) shipping damage to any units or spare parts during shipping. This includes and is not limited to compressors, evaporators and condenser coils. This warranty shall extend only to the original end-user and shall be void if any labels or other identifying marks permanently affixed to Products when shipped by AmeriCool are removed, altered, defaced or obliterated.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY, AS LIMITED HEREIN, SHALL BE IN LIEU OF AND EXCLUSIVE OF ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, ON THE PART OF AMERICOOOL INC., OR WELTEM CO., LTD. WHETHER ARISING FROM LAW, COURSE OF DEALING, USAGE OF TRADE, OR OTHERWISE, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF A PARTICULAR PURPOSE OR ANY LIABILITY FOR COMMERCIAL LOSSES BASED UPON NEGLIGENCE OR MANUFACTURER'S STRICT LIABILITY. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NEITHER AMERICOOOL, INC., NOR WELTEM CO., LTD. WILL, IN ANY EVENT, BE LIABLE FOR LOST PROFITS, COSTS OF PROCESSING, INJURY, GOODWILL, OR ANY OTHER CONSEQUENTIAL DAMAGES OF ANY KIND ARISING FROM BREACH OF THIS WARRANTY.

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