



Portable Furnace Heater

ACW0035/ACW0037



User's Manual

FOR INDOOR USE ONLY
120VAC 15 AMP DEDICATED CIRCUIT

Carefully and thoroughly read this manual before using the portable furnace heater for the first time. We advise to keep this manual for regular review and future reference. Heater is intended for residential use.

Introduction

Portable Furnace Heater utilizes the latest infrared heat technology. It provides a safe, convenient, clean and economical way to distribute heat throughout your home or business office without producing deadly fumes or monoxide gases. The heating system produces therapeutic infrared heat that can potentially relieve symptoms of cardiovascular conditions and inflammatory diseases. The infrared heat technology, in general, produces rays that are safe and highly beneficial to our bodies and health. Professionals have been using infrared technology for decades to treat muscle and joint pains.

Portable Furnace Heater is constructed of a wood housing made of walnut, dark oak and light oak finishes. They are equipped with nylon caster wheels for easy mobility. The highly efficient air filter can be maintained and cleaned by simply rinsing with warm water.

Safety Instruction

IMPORTANT INSTRUCTIONS

USE CAUTION

Save these instructions because electrical safety is essential to keep your home safe. When using an electrical appliance, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons. Please adhere to the following safety instructions:

- The heater must be operated by an adult. Keep heater out of the reach of children.
- Only operate the heater when it is on the floor.
- Do not operate heater near any water.
- Do not plug heater into any other cord connected device such as power strip, surge protector, multiple outlet adapter, grounding adapter, outlet-type air fresheners or extension cords. Plug the heater cord directly into a 3-prong 120V 15 amp grounded circuit receptacle.
- Never plug heater cord into a loose fitting or broken receptacle.
- Never alter the heater's design or operation. Such actions will void warranty and could result in injury and/or death.
- Do not operate the heater if it has a damaged cord or plug.
- Do not operate the heater if there are signs of malfunction. If the heater has been dropped or damaged, do not operate.
- Keep combustible materials such as furniture, pillows and other bedding materials, paper(s), clothing, and curtains at least three feet away from all sides of the heater during operation.
- Always unplug heater when not in use.
- Do not use the heater outdoors.
- Do not run heater cord under carpet. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Route cord away from traffic areas.
- Do not use the heater in bathrooms, laundry rooms, or similar indoor locations.

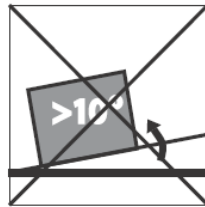
- Turn off heater before unplugging.
- Do not insert any foreign object or allow foreign object to enter the ventilation opening or exhaust opening as this may cause electric shock, fire, and/or injury.
- Never block the air intake or exhaust opening in any manner as this could lead to fire.
- Do not locate heater, when in use, immediately below a receptacle.
- Never operate heater in or around a bathtub, shower, or swimming pool.
- Only open heater if instructed by an authorized representative of the manufacturer. There are limited user-serviceable parts inside.
- Use heater only as described in this manual. Any other use is not recommended by the manufacturer as it may lead to fire, electric shock, and/or series physical injury or death.
- **Do not use your Portable Furnace Heater under the following conditions:**



If the power cable is frayed or cut



When small children may be left unattended



On a slope or uneven surface



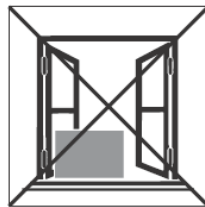
In close proximity to another heat source



This product is not made for DIY repair



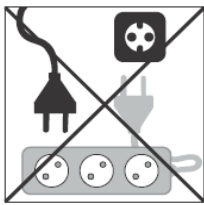
If there is a risk of liquid falling onto the unit



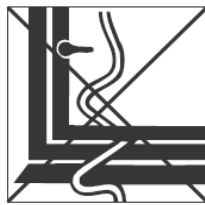
Inside unit exposed to the weather outdoors



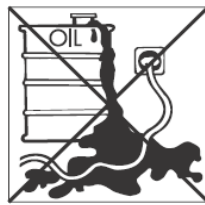
In a permanent humid environment



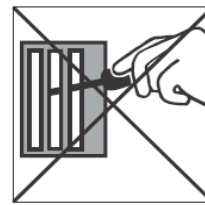
If an unsuitable extension cord is needed to reach the outlet



Where the power cable is in danger of damage



Where it may be damaged by chemicals



Where there is a risk of damage by foreign objects

How It Works

In short, the indoor air circulates from the rear of the portable furnace heater, passes through a highly efficient air filter, and enters a chamber with infrared quartz bulbs. Finally, the heater discharges heated air from the diathermanous copper plate constructed on the front of the unit. The portable furnace heater ideally heats a room of 500 to 700 square feet. It can be used to heat up a single room size up to 1000 square feet depending on the ambient temperature. It does all this with a noise level below 46db. The portable furnace heater is not for use as the primary/sole heating system.

Components and Functions

- A. The portable furnace heater is constructed with infrared quartz bulbs. Each infrared quartz bulb rates at 375W. These bulbs produce therapeutic infrared rays that warm the air which passes through the inner chamber. The infrared quartz bulbs are constructed with a stainless steel thermal conducting housing. The incorporated twisted style increases the efficiency of the unit.
- B. An AC cross flow fan pushes air over these infrared quartz bulbs. Cross flow fans create a wide flow of air using a cylindrical-shaped impeller. Air is drawn inside the portable furnace heater, flows along the circumference of the chamber and over the infrared quartz bulbs, and is blown out laterally creating a uniform flow of warm air.
- C. The portable furnace heater has a delay start function which controls the AC cross flow fan. The purpose of the delay start function is to allow the infrared quartz bulbs to heat up before the fan begins to circulate the air flow. In addition, the AC cross flow fan will continue to circulate the airflow after the power is turned off to circulate the warm air from the portable furnace heater cooling the unit down.
- D. The air flow exits through the front of the portable furnace heater. It travels from the diathermanous copper plate. The diathermanous copper plate is constructed from red copper making it advantageous for efficient thermal conductivity. It is a resourceful material in reflecting the infrared rays.
- E. The LED digital display is a convenient, stylish, and modern way to display the temperature and timer. This attractive addition compliments the portable furnace heater, in that, it simplifies and makes controlling the unit easy. Operating the heater is logical and can be done on the unit itself or by remote.

Heater Specifications

Model No.	ACW0035	ACW0037
Carton Size:	18.9 in x 17.3 in x 18.1 in	15.0 in x 16.5 in x 20.1 in
Heater Size:	16.3 in x 14.8 in x 14.8 in	14.2 in x 12.5 in x 17.0 in
Net Weight:	28.6 lbs	26.9lbs
Gross Weight:	35.2 lbs	32.4lbs
Cabinet Color:	TUSCAN, EXPRESSO, OAK	TUSCAN, EXPRESSO, OAK
Power Cord:	8 ft / 14 gauge	8 ft / 14 gauge
Power requirement:	120V 15 amp	120V 15 amp
Thermostat:	Electronic Analog	Electronic Analog
Fan System:	Cross Flow Fan	Cross Flow Fan
Fan Noise Level:	46 dB	46 dB
Remote Control:	YES	YES
Washable Air Filter:	YES	YES
Heat Type:	Therapeutic Quartz Infrared Heat	Therapeutic Quartz Infrared Heat
Heating Elements:	4 Infrared Quartz Bulbs w/Nickel-Chrome Filament	
Warranty:	Limited 3-Year Parts Warranty	
Heating Elements Life Expectancy Potential: Rated 20,000 – 30,000 hrs		

Unpack the Portable Furnace Heater

1. Check the carton to make sure no obvious damages that may have occurred during shipment.
2. Open the carton and take it out from the box. Or you may flip the entire box gently and let the heater slide out slowly.
3. Remove all the protective materials from the heater. It may be a good idea to keep the protective materials and packaging in storage when you do not use it.

Operating Instructions

Visually inspect the portable furnace heater before operation. Do not operate the heater if any damages are detected. Contact your dealer immediately.

NOTE: “▲” and “▼” buttons both on the control panel and remote control.

1) Plug the power cord directly into a conventional 120V 15 amp outlet and press the MASTER POWER switch on the rear of the portable furnace heater. Then press the “⏻” button on the front control panel or on the remote to start the unit. The LED display will show the default value as 72 °F / 22 °C. By pressing the “▲” or “▼” button, you will choose the desire temperature. The temperature range you can set on this heater is 50°F / 10°C ~ 85°F / 32°C.



Function Display



2) By pressing both the “▲” and “▼” button on the front control panel or the “⏻” button on the remote control, you can switch the temperature format between Fahrenheit and Celsius.



Press the buttons “▲” and “▼” on the control panel at the same time




3) By pressing the “⌚” button, the LED display will switch from the temperature setting to the timer setting and begin to blink the default timer “--”, and that means that the TIMER is not activated and the heater will work all the time. If you press the “⌚” button again, the screen will display “2”, that is 2 hours. The timer will increase 2 hours on each pressing the “⌚” button. The maximum timer is 12 hours. When it reaches 12 hours, the screen will return to “--” and you will restart the setting on timer. If you do not press “▲” and “▼” within (5) seconds after you set the TIMER, the time status will switch back to the temperature status.



5 seconds later the value switches to ambient temperature



4) Portable furnace heater will turn off by pressing the ““ button on the front control panel. DO NOT TURN OFF THE MASTER POWER SWITCH ON THE REAR OF THE HEATER OR UNPLUG THE HEATER UNTIL THE FAN SHUTS DOWN. If the heater is still in the TIMER function, there will be (5) seconds sound alert to let you know that the timer is invalid. If no actions are taken, the heater will shut off.

Recommendations for Maximum Performance

1. Be sure not to place the heater in an area where the air flow or air movement is great.
2. Direct the outflow towards the center of the room and not against a solid structure, like a wall for example for larger areas place the heater within a central location.
3. The Infrared heater is designed for maximum efficiency in the 68 °F to 74°F range. This is because of the ambient air moving through the heater and out constantly.
4. Existing HVAC heating system vents should be closed, this allows the heater to function in an isolated area.
5. It is not recommended to operate heater in areas exposed to non-insulated concrete or metal walls. Concrete floors should be covered to insulate the heat within the room.
6. If the heater filters become dirty or dusty, they must be cleaned for the heater to operate at it maximum efficient.

Care, Maintenance, and Storage

Before care or maintenance is applied, always unplug the cord from the receptacle. The cabinet housing can be wiped down with water and a damp cloth or with furniture polish. The heater has a washable air filter. The filter should be cleaned regularly to provide for maximum performance. Once the filter is removed, run warm water through and over the filter to remove dirt and dust. Shake all residue water from the filter and replace it back in the heater.

(Note: A mild soap can be applied to assist in removing dirt and dust from the filter.)

If the heater is not to be used for an extended period of time, it can be stored away. Make sure the power is turned off and the cord is unplugged from the receptacle. Wrap the cord around the handle on the rear of the portable furnace heater. Cover the heater to prevent dust from accumulating on the heater. You may want to repack it back in its original carton. Always store the heater in a dry and dust free environment.

(Note: You may want to clean the filter prior to storing the heater away so that it is ready for operation the next time it is put in use.)

Troubleshooting

1. PROBLEM:

- a. If the Heat Emitter is broken or damaged.
- b. If the Control Panel is not responding, the temperature reading is above 85°F / 32°C, or there is a burning odor coming from the portable furnace heater
- c. Or if the power cord is damaged.

SOLUTION:

Contact the manufacturer immediately. **DO NOT** attempt to operate the portable furnace heater as this may cause electric shock, fire, and/or injury.

2. PROBLEM:

The amount of heated air exiting the front of the portable furnace heater is reduced.

SOLUTION:

Check the electrostatic filter to make sure it is free of dust and dirt. Also check the front grill and rear air intake to make sure it is not being blocked by any kind of debris.

3. PROBLEM:

The portable furnace heater will not turn on.

SOLUTION:

- a. Test your outlet to make sure it has power. You can do this by plugging in another appliance and turning the appliance on.
- b. Check the LED display to see if it is flashing. If this is the case, press the POWER button to turn off the timer and resume normal operation of the portable furnace heater.
- c. Check the power switch to see if it is lighting up. If the outlet does have power, the LED display is not flashing, or the power switch is not lighting up, please contact the manufacturer immediately for further troubleshooting.

4. PROBLEM:

The portable furnace heater continues to operate even when the power switch is turned off.

SOLUTION:

Do not unplug. The portable furnace heater has a fan that will continue to operate even when the power switch is turned off. This fan continues to run in order to cool down the portable furnace heater. Once the fan stops running, you can then unplug the portable furnace heater.

5. PROBLEM:

The control panel displays no temperature or timer.

SOLUTION:

- a. Check to make sure the power cord is not damaged and it is plugged in, and the outlet has power.
- b. Check to make sure the control panel is not damaged. If the control panel display continues to be inoperable, contact the manufacturer for further troubleshooting.

6. PROBLEM:

The control panel is displaying a temperature and timer, but the portable furnace heater does not operate.

SOLUTION:

The signal cable or other relevant plugs may have become disconnected. Please contact the manufacturer for further troubleshooting.

7. PROBLEM:

The heat emitter is functioning and the air outflow is working, but the temperature display on the LED panel does not increase.

SOLUTION:

The temperature sensor may be damaged or has become disconnected. Please contact the manufacturer immediately for further troubleshooting.

8. PROBLEM:

The display is showing “Er .” This error code means the heating system is not working correctly.

SOLUTION:

Contact the manufacturer immediately. **Do Not** attempt to operate the portable furnace heater as this may cause electric shock, fire, and/or injury.

Warranty information

1. Warranty period is 12 months from the purchased date.
2. This warranty is void if the portable furnace heater has been altered, misused, or has been repaired by an unauthorized dealer, or it is not installed according to stated instructions.
3. You will be charged a minimum repair cost in the following cases:
 - a) When warranty period has expired.
 - b) Force majeure.
 - c) Rough and wrong operation on the portable furnace heater.
4. The warranty extends only to the manufacturing defects and does not cover any damage resulting from mishandling of the product by the owner.

“Certificate of Warranty”

This product has completely passed tests on quality control and safety features, conducted by the technical department of the Manufacturer. It will be greatly appreciated to inquire and ask for required service work upon finding any defects by presenting the Certificate of Warranty to the authorized dealer in your area.

Serial No.:

Date of Purchase

Name of Customer

Dealer information

Distributor Contact Information for Customer Service