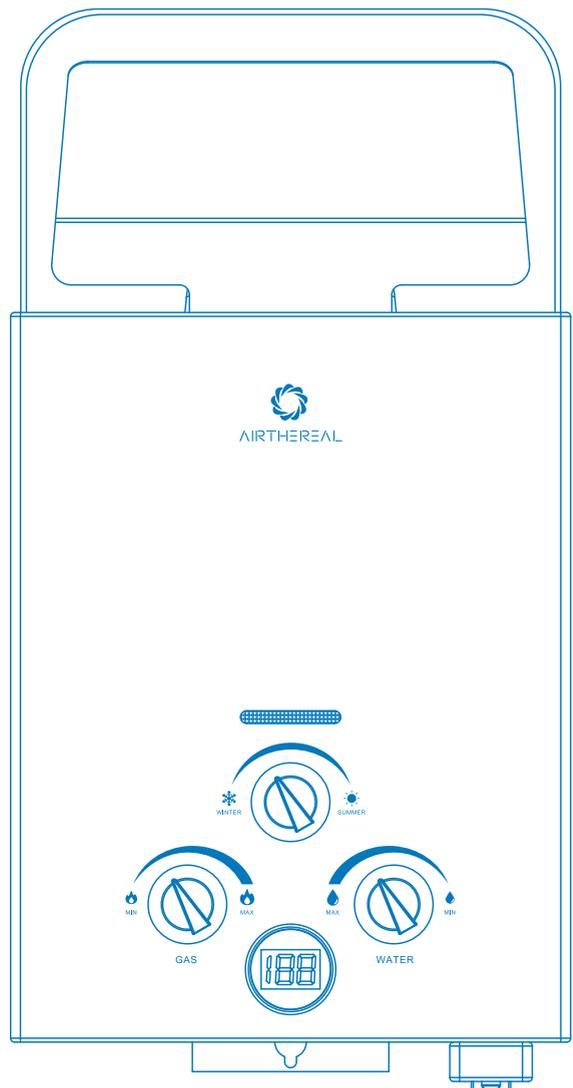




AIRTHEREAL

# Evenfall EVF6BL/EVF6YL Portable Propane Tankless Water Heater for Outdoor



USER MANUAL

READ AND SAVE THESE INSTRUCTIONS

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# IMPORTANT SAFETY INSTRUCTIONS

## Read All Instructions Before Using

Be sure to read and understand the entire user manual before attempting to install or operate this water heater. Pay particular attention to the Safety Instructions. Failure to follow these warnings could result in serious bodily injury or death. Should you have problems understanding the instructions in this manual, or have any questions, STOP, and get help from a qualified service technician or the local gas utility provider.

### WARNING

#### FIRE OR EXPLOSION HAZARD

If you smell gas:

1. Do not attempt to light appliance and make sure appliance is in the OFF position.
2. Extinguish any nearby flame(s).
3. Shut off cylinder fuel supply valve if so equipped, or if equipment with a disposable fuel cylinder, disconnect the cylinder.
4. Leave the area immediately.
5. Allow gas to dissipate for 5 minutes.

Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury, or death.

### WARNING

Improper installation, use, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information, consult a qualified installer, service agency, or gas supplier.

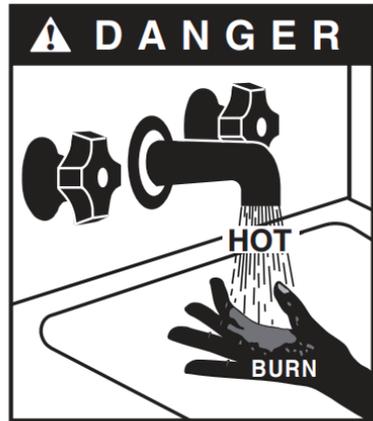
### WARNING

Keep this appliance away from all combustible material. Minimum clearances rear at 20 inch, two sides at 40 inch, top at 40 inch. Turn gas off at cylinder valve after use. Disconnect and remove cylinder before storing this appliance indoors.

\* Please retain the instruction manual for future reference.

### WARNING

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance



Water temperature over 125°F (52°C) can cause severe burns instantly or death from scalds. Children, disabled and elderly are at highest risk of being scalded. See instruction manual before setting temperature at water heater. Feel water before bathing or showering.

### DANGER



This appliance can produce carbon monoxide which has no odor. Using it in an enclosed space with no ventilation can kill you. Never use this appliance in an enclosed space such as a camper, tent, car or home.

- Do not leave unattended.
- The exhaust gas and top of the portable tankless water heater is HOT! Do not place hands or any object near the top of the heater.
- This water heater is only intended for use with non-potable water (such as a portable shower). Do not connect to potable water. There are health risks and/or consequences if it is used for heating water for human consumption.
- This water heater is for point of use (dishwashing, washing, showering, etc) temporary water heating and not for connection to a permanent inlet water connection or for a water distribution system to supply multiple outlets. Not suitable for drinking and cooking. Do not use in high wind conditions
- If the smell of gas is detected, turn off the gas valve at the cylinder immediately! Do not use flame for leak detection.
- Use only Propane gas with this heater.
- Use only outdoors.
- The minimum environmental temperature for safe storage and operation of the water heater must be above 33°F, if not, may cause water heater damage and dangerous conditions.

 <b>DANGER</b>	
	
<p>Vapors from flammable liquids will explode and catch fire causing death or severe burns.</p> <p>Do not use or store flammable products such as gasoline, solvents or adhesives in the same room or area near the water heater.</p> <p>Keep flammable products:</p> <ol style="list-style-type: none"> <li>1. Far away from heater</li> <li>2. In approved containers</li> <li>3. Tightly closed</li> <li>4. Out of children's reach</li> </ol>	<p>Water heater has a main burner flame.</p> <p>The main burner flame</p> <ol style="list-style-type: none"> <li>1. Can come on at any time and</li> <li>2. Will ignite flammable vapors</li> </ol> <p>Vapors:</p> <ol style="list-style-type: none"> <li>1. Cannot be seen</li> <li>2. Are heavier than air</li> <li>3. Go a long way on the floor</li> <li>4. Can be carried from other rooms to the main burner flame by air currents</li> </ol>
<p><b>Installation:</b></p> <p>Do not Install water heater where flammable products will be stored or used unless the main burner flame is at least 18" above the floor. This will reduce, but not eliminate, the risk of vapors being ignited by the main burner flame.</p>	

## **DANGER**

### **Properly install water heater**

- Failure to properly install the water heater outdoors as outlined in the Installation Instructions in this manual can result in unsafe operation of the water heater.
- To avoid the risk of fire, explosion, or asphyxiation from carbon monoxide, never operate this water heater unless it is installed properly and has an adequate air supply for proper operation.
- Be sure to inspect the flue terminal for proper installation at initial start-up and at least annually thereafter. Refer to the Care and Cleaning section of this manual for more information regarding flue terminal inspection.

### **Liquefied petroleum gas models**

- Gas detectors are recommended in propane gas applications and their installation should be in accordance with the detector manufacturer's recommendations and/or local laws, rules, regulations or customs.
- To avoid possible equipment damage, personal injury, or fire, do not connect the water heater to a fuel type not in accordance with the portable tankless water heater data plate. These portable tankless water heaters are only for propane gas, not certified for any other fuel type.
- Propane appliances should not be installed in an unventilated place (for example, in a basement) if such installation is prohibited by federal, state and/or local laws, rules, regulations or customs.
- Propane gas must be used with great caution. It is heavier than air and will collect first in lower areas making it hard to detect at nose level.
- Before attempting to light the water heater, make sure to look and smell for gas leaks. Use a soapy solution to check all gas fittings and connections. Bubbling at a connection indicates a leak that must be corrected.
- It is recommended that more than one method, such as soapy solution, gas detectors, etc., be used to detect leaks in gas applications.
- Gasoline, as well as other flammable materials and liquids (adhesives, solvents, paint thinners etc.), and the vapors they produce are extremely dangerous. DO NOT handle, use or store gasoline or other flammable or combustible materials any where near or in the vicinity of a water heater or any other appliance.

**Notice:** If a gas leak is present or suspected:

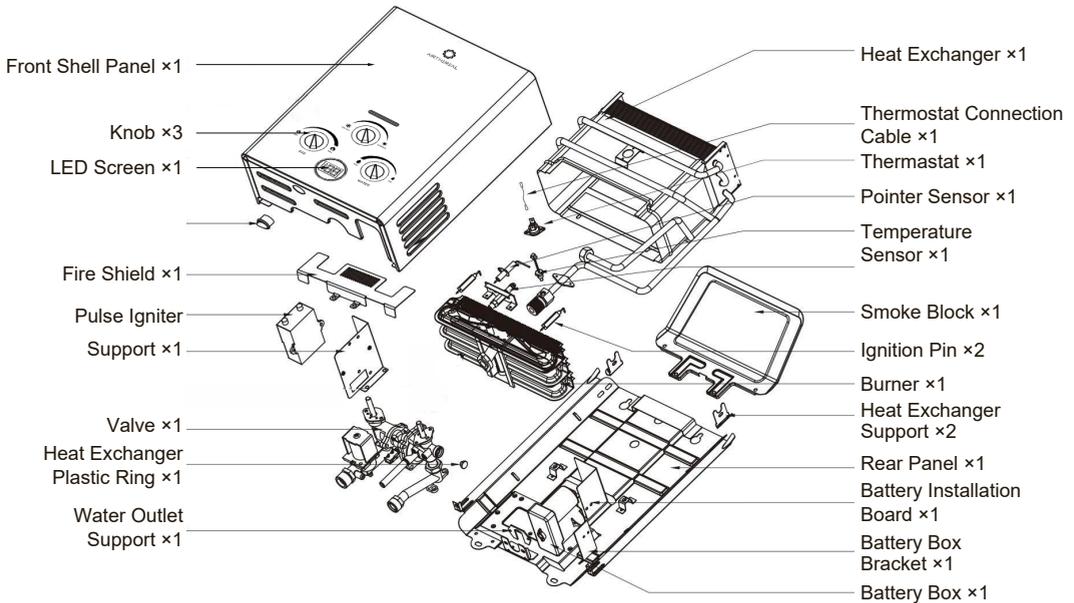
- DO NOT attempt to find the cause yourself.
- DO NOT try to light the water heater.
- DO NOT touch any electrical switch.

# SPECIFICATIONS

Model	EVF6BL/EVF6YL
Fuel Type	LPG PROPANE
Max Input Rating	41,000 Btu/hr
Flow Rate	1.58 GPM
Water Pressure Range	2.2 - 116 PSI (15 - 800 kPa)
Inlet Gas Pressure	11" w.c. (2.74 kPa)
Ignition	Electric pulse, size D battery powered (No electrical connection required)
Time Setting	20 Minutes (Automatically shut off after 20 minutes)
Pipe Fittings	1/2" BSP for gas inlet, water inlet and water outlet
Item Dimensions	16.2 x 11.2 x 5.7 Inch
Item Weight	11.9 Lbs

**Note:** In order to protect the safety of the guests, the water heater will automatically turn off after 20 minutes of use. Note that this is not a fault, and it only needs to be restarted after it is turned off.

# COMPONENTS



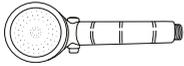
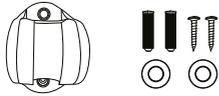
**WARNING:** For your safety, DO NOT attempt to disassemble, repair, or replace any portion of this unit. Refer all repairs, service, and/or adjustment to qualified servicemen.

# INSTALLATION INSTRUCTIONS

Check the carton box for damage. Damages caused in shipment must be reported immediately. Make sure you have all the parts.

NOTE: Included parts and accessories may vary depending on country and regulations.

## In The Box

Item	Description	Identification	Quantity
A	Outdoor portable tankless gas water heater with hardware pack		1 piece
B	ON/OFF switch shower head		1 set
	Head hold with hardware pack		1 set
	5'hose		1 set
C	CSA certified gas regulator with 5'hose		1 set
D	Gas compression fitting *fixed to gas inlet already	*1/2" BSP female to 5/8"-18UNF male Flare 	1 piece
E	Garden hose adapter	 *1/2" BSP female to 3/4" GHT male  *1/2" BSP female to 3/4" GHT female	1 set
F	Quick Connector		1 set
G	Wrench set		2 piece
H	Waterproof tape		1 piece

## Preparation

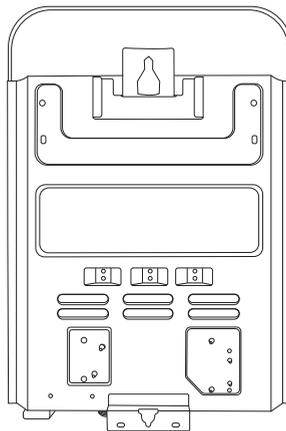
ONLY USE IN OUTDOOR AREAS. CARBON MONOXIDE HAZARD-USING THIS APPLIANCE IN AN ENCLOSED SPACE WILL CAUSE DEATH-DO NOT USE IN CARAVANS, TENTS, MARINE CRAFT, CARS, MOBILE HOMES OR SIMILAR LOCATIONS.

1. Use appliance only with LP (propane) gas and the regulator valve assembly supplied.

Note:

LP gas supply cylinders to be used must be:

- Constructed and marked in accordance with the specifications for LP gas cylinders of the Tubes for Transportation of Dangerous Goods and Commission, CAN/CSA-B339, as applicable.
  - Provided with a listed overfilling prevention device.
  - Provided with a cylinder connection device compatible with the connection Installation must conform with local codes or in the absence with National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Propane Installation Code, CSA B149.1, or the Propane Storage and Handling Code, CSA B149.2.
2. Reinforcement of the wall is required where the unit is installed so the wall will be strong enough to hold the water heater. The mounting location for the water heater should allow for easy access and operation.
3. Take the appliance out from the carton box and remove the foam and plastic bag, position the upper mounting bracket and partially install the center mounting screw. Hang the upper bracket on the screw or hang it by handle for temporary fixed.

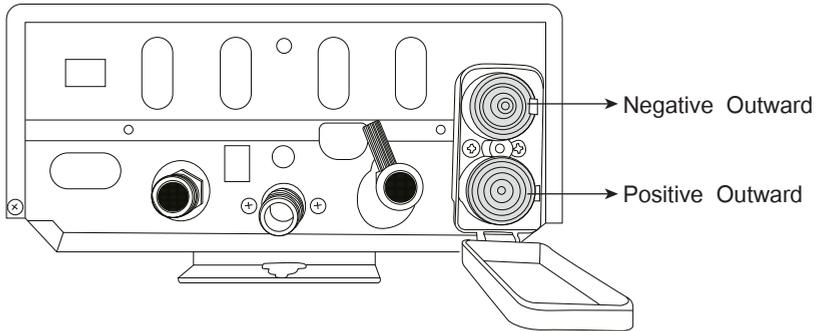


Wall Mount:

**Note:** Keep this appliance away from all combustible material. Minimum clearances rear at 20 inch, two sides at 40 inch, top at 40 inch.

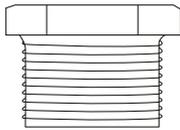
- Measure all distances to ensure the proper position, mark the position of 3 pilot holes (1 mounting hole for the top mounting hook; 2 pilot holes for the bottom hook)
- Use a hammer drill to drill those three holes. Always use eye and ear protection when using a hammer drill.
- Insert the sleeve anchor into the mounting hole and two expansion bolts into the bottom two holes. Fix the sleeve anchor bolt and two expansion bolts with a hammer
- Hang and attach the water heater through the sleeve anchor
- Use a wrench to turn the nut until snug. This will pull the stud up through the sleeve expanding it against the wall of the base material
- Screw down two 4\*30 screws into the bottom two pilot holes to fix the water heater in place.

4. Install 2 size D batteries (NOT included) in the battery box on the bottom of the appliance. Make sure the batteries are facing the correct direction.

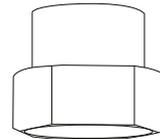


## Water Supply Installation

1. Before attaching the water line to the water heater, run the water until it has purged all contaminants (sand, debris, air, caulking, etc).
2. Water inlet :
  - If using a standard garden hose, attach the 3/4" GHT garden hose adapter to the fitting marked "Water Inlet". Check to make sure the filter inside the water inlet is in place and clean. Then attach your water inlet/garden hose.

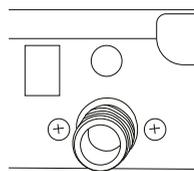


GARDEN HOSE MALE  
1/2" BSP FEMALE X 3/4" GHT MALE

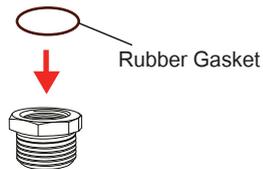


GARDEN HOSE FEMALE  
1/2" BSP FEMALE X 3/4" GHT FEMALE

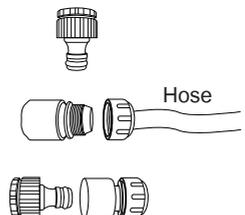
**NOTICE: MAKE SURE TO PUT THE RUBBER GASKET IN ALL FITTINGS BEFORE CONNECTION.**



Water Inlet



- If using a quick connector :
  - A. Screw the tap connector onto the gas water heater water inlet.
  - B. Insert the hose into the end of the connector.
  - C. Slide the nut onto the end of the hose and tighten.
  - D. Push the hose end connector into the tap connector.
  - E. To disconnect, hold the soft touch pads and pull the connector downwards.



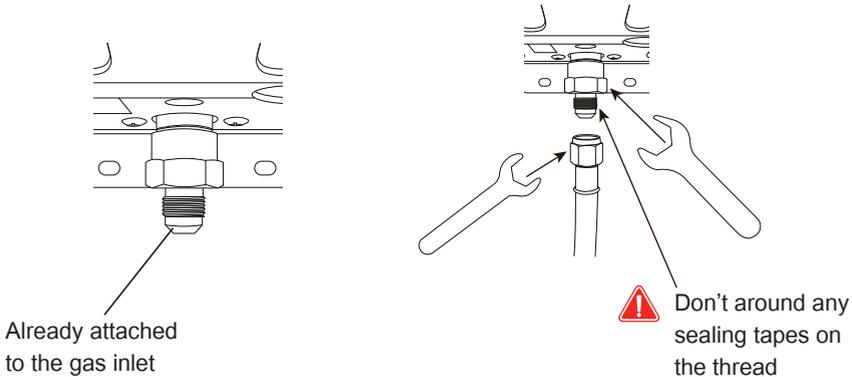
### 3. Water outlet :

- Attach the water output device (shower head) to the fitting marked "Water outlet". **DO NOT OVER TIGHTEN!** Tighten by hand only. (The shower hose already comes with gaskets inside, extra gaskets are available as a spare.)

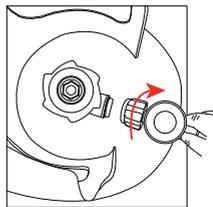
## Gas Connecting

**WARNING: Never use an open flame to test for gas leaks, because death, personal injury and/or property damage can result. The water heater and its gas connections MUST be leak tested at normal operating pressures before the unit is placed in operation.**

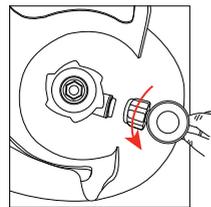
1. Use shifting wrenches to attach supplied gas regulator (with brass connector already attached) to the appliance and connect to the bottom of the appliance marked "Gas inlet". Do not over tighten. Over tightening may causing a gas leak! Ensure that you use supplied washers on all connectors and check for any gas smell. Please connect with torque force between 20-28N/m.



2. Please always use the cylinder at an upright position for vapor withdrawal. Connect the certified gas regulator with LP gas supply cylinder by hand. Connect the regulator hose to the heater gas inlet fitting by wrench.



**Connecting to cylinder:**  
Connect the gas regulator to the gas cylinder, tightening using two fingers support posts.



**Connecting to cylinder:**  
Disconnect the gas regulator from the gas cylinder, tightening using two fingers support posts.

## Note:

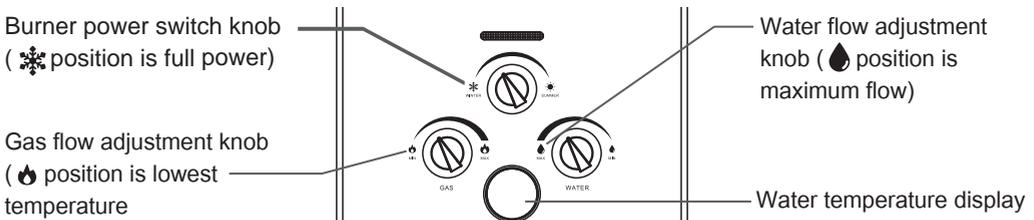
- This appliance shall only be connected to a 20lb (Size 1:  $\phi$  12 5/16" \*H17 5/16" ; Size 2:  $\phi$  11 13/16" \*H17 7/16" ;) cylinder with a POL cylinder valve certified to CAN/CSA-B339. The LP-gas cylinder(s) must be constructed and marked in accordance with the specifications for Cylinders, Spheres, and Tubes for the Transportation of Dangerous Goods, CSA B339.
- Please inspect the hose before each use of the appliance. If it is evident there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the appliance being put into operation. The replacement hose assembly shall be that specified by the manufacturer.
- Check: Turn on the gas shut-off valve to the water heater. Use a soapy water solution to test for leaks at all the connections and fittings. If bubbles are seen, it indicates a gas leak that must be corrected and contact a qualified service technician.
- The gas must be turned off at the LP gas supply cylinder when the water heater is not in use.
- When the LP-gas supply cylinder is not disconnected from the water heater, the water heater and cylinder must be stored outdoors, in a well ventilated space, out of the reach of children, and must not be stored in a building, garage or any other enclosed area.
- Storage of the water heater indoors is permissible only if the cylinder is disconnected and removed from the water heater.
- Cylinders must be stored outdoors, in a well ventilated space, out of the reach of children, and must not be stored in a building, garage or any other enclosed area.
- Do not store a spare LP gas cylinder under or near this appliance. Never fill the cylinder beyond 80 percent full. If not followed exactly, it may lead to a fire.

## USE AND STARTING

Check around the area for flammables, especially gasoline, or other vapors which may ignite. The exhaust and top of the portable tankless water heater will get HOT! Make sure there are no foreign objects around the portable tankless water heater or have fallen into the top.

**WARNING:** The water heater must not be exposed to flammable vapors or liquids during lighting.

1. Turn on incoming water supply. Ensure that you have abundant water pressure between 2.2-116 PSI/15-800 kPa for ideal operation.
2. Turn your water output device to its "off" position.
3. Turn the gas valve on the cylinder all the way open.
4. IF THE SMELL OF GAS IS DETECTED, TURN OFF THE GAS VALVE IMMEDIATELY!!
5. Set the burner power switch knob to  position. (In winter this knob can be switched to )
6. Set the water control knob to Maximum.
7. Set the gas control knob on to Minimum.

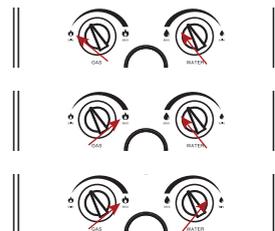


8. Turn your water output device to the “on” position and adjust to the desired water flow.
9. There will be a series of audible clicks and the burner will ignite. Please take note the water heater must not be exposed to flammable vapors or liquids during lighting. Should the burner not ignite after 5 seconds, shut off and go to the “Troubleshooting” section.
10. Upon completion of use or storage, open the drain valve (ribbed cylindrical stem next to the water inlet valve) to ensure draining of water.
11. Please turn off the gas supply when not in use.

## Water Temperature Adjusting

The temperature of the outgoing water is dependent on the temperature of the incoming water balanced with the amount of heat applied. Use extreme caution in setting the outlet water temperature.

1. The water flow knob in position max and the gas knob in position min is the lowest temperature setting available.
2. To raise the water temperature, adjust the gas knob up (toward max);
3. After step 2, if you still need water temperature higher, adjust the flow rate knob down (toward min) until you have the desired temperature.



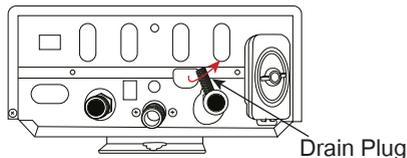
4. The middle knob is for adjusting the amount of propane burned per unit time. When the initial water is too hot in summer, you could turn it to the ☀️ position. One burner work to lower the temperature and save propane. When the initial water is too cold in winter, you could turn it to the ❄️ position so all of the burners will work to raise the temperature.



## Please Protect Your Water Heater From Freeze Damage!

**WARNING:** If the outside temperature is around or below freezing (32 °F/0°F), ensure that the drain plug is opened and water drained from the portable tankless water heater after each use to avoid internal damage to the heat exchanger. You will also need to unhook the outgoing water line to ensure that any water in the heat exchanger is drained. Failure to properly drain your portable tankless water heater will cause water damage which may or may not be repairable.

-  To drain the residual water totally, please keep the water heater in vertical statue when draining water.



Before Operate The Drain Plug, Must be

1. Ensure that the water heater is disconnected from the water supply (turn off cold water inlet switch).
2. Turn the shower switch to “ON”.
3. Ensure that the shower hose is disconnected from the water heater.

# COMMON ISSUES WITH SOLUTIONS

Issue	Indication	Solution
The water heater emits a loud sound on ignition	Water knob is restricted	Turn water knob counter clockwise.
Noisy upon ignition	Water knob is restricted	Turn water knob counter clockwise.
	Gas pressure high	Service call.
	Blocked burner	Service call.
Flame is yellow and smoke is visible	Not adequate centration	Open windows and vents.
	Blocked burner	Service call.
Over heat protection	Water heater automatically shuts off When water temperature is 167°F (75°C)	Restart water heater later when water becomes cooler.
Do not fire up upon opening water tap	Incoming and outgoing are reversed	The first thing to check is to ensure that the incoming water on the “right” side of the portable tankless water heater. If the incoming and outgoing are reversed, the portable tankless water heater will not work. The incoming is on the far right and the outgoing is in the middle.
	Batteries is not fresh or installed incorrect	Check to make sure you have fresh batteries and they are installed in the correct position.
	Not enough water pressure	Ensure that you have adequate water pressure of at least 2.2 PSI/15 kPa, sustained.
	Gas valve is closed	The valve on the propane tank should be all the way “Open”.
	Air in gas line	Cycle the portable tankless water heater on and off by using the shower head switch several times to purge the air from the gas.

Issue	Indication	Solution
Heater turns off after igniting	Water pressure is low	The portable tankless water heater requires a minimum flow of about 2.2 PSI/15 kPa.
	Out of, or low on gas	The valve on the propane tank should be all the way "Open". Cycle the portable tankless water heater on and off by using the shower head switch several times to purge the air from the gas.
	Batteries is not fresh	Fresh batteries are required for ignition spark. Make sure batteries are aligned in the proper polarity (+/-).

## CARE AND MAINTENANCE

Properly maintained your water heater will provide years of dependable trouble-free service. It is recommended that a periodic inspection of the burner, water filter and top exhaust should be made by service personnel qualified in gas appliances.

1. It is suggested that a routine preventive maintenance program be established and followed by the user.
- 2.\* It is recommended to do maintenance once a year.
3. Inspect the area around the water heater to ensure a safe operating environment.  
Keep water heater area clear and free from combustible materials, gasoline, and other flammable vapors and liquids. Do not obstructing the flow of combustion and ventilation air. Ensure the unit has not been damaged. If damage or denting is present, contact a service personnel to verify proper operation.
4. Check for any abnormal sounds during normal operation of the water heater.
5. Check the burner flames through the visible flame window to make sure the combustion is normal during operation of the water heater.
  - Burner with pure blue flame, means well ventilation and combustion adequacy.
  - Burner with yellow/red flame, means combustion insufficiency, air intake is not enough, or appliance bottom block.
  - Burner with a lift-flame, over gas pressure, high wind condition.
  - Max gas but small flame, gas pressure is not enough.

6. All piping should be checked for gas and/or water leaks.

The air intake and cold water supply filters should be cleaned monthly. For clean panel surface, dust off and use kitchen cleaner to clean when you feel it is dirty.

7. DO NOT operate the water heater if you feel something is wrong with the unit.

8. DO NOT allow children to operate or otherwise handle the unit.

### **DANGER**

Before disconnecting the water supply, make certain no one will be exposed to the danger of the hot water released by disconnecting.

The water may be hot enough to create a scald hazard. The water should be released into a suitable drain to prevent injury or property damage.

Hotter water increases the potential for hot water scalds.

Failure to perform the recommended routine preventative maintenance can harm the proper operation of this water heater, which can cause carbon monoxide dangers, excessive hot water temperatures and other potentially hazardous conditions.

## **LIMITED WARRANTY**

### **LIMITED WARRANTY**

Airthereal warrants all Gas Water Heaters for 1 year. For more information please visit [www.airthereal.com/warranty](http://www.airthereal.com/warranty).

#### **What's covered?**

Defects due to faulty materials and/or workmanship of the product.

#### **What's NOT covered?**

1. Damage caused by the owner when attempting to fix or altering the product by himself or herself.
2. Damage caused by misuse, abuse, neglect, alterations or unauthorized repair.
3. Natural depreciation.

#### **Warranty Period**

Warranty becomes effective from the date of original purchase and will last for 1 year.

#### **Who's covered?**

This limited warranty is only effective for the original purchaser. It is non-transferable.

#### **How to request warranty services?**

To obtain the benefit of this warranty, please email [support@airthereal.com](mailto:support@airthereal.com). Our customer service team will address your issue as soon as possible!

Always here to help you  
[www.airthereal.com](http://www.airthereal.com)

Keep Out Of Reach Of Children  
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**FOR THE AIR WE CARE**