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# Outdoor Tankless Water Heater



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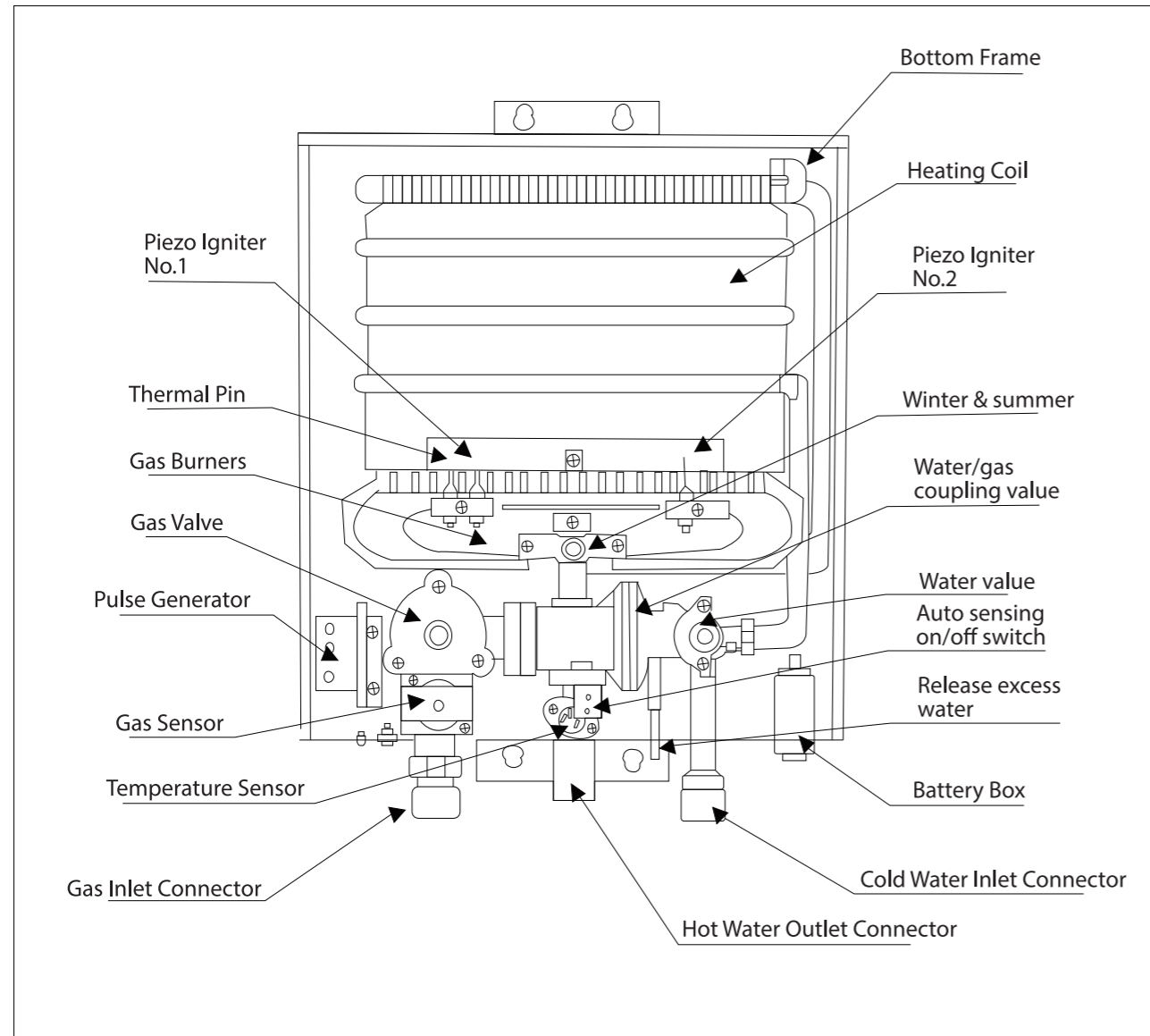
# Features

- 6 litres/minute hot water with temperature rise of 77°F
- Battery operated automatic IC ignition
- Flame failure device
- Incomplete combustion safety device
- Over Water temperature protection device
- Pressure release and drain valve(2 in 1)
- Gas volume regulator
- Water volume regulator
- Manufactured by ISO9001 certified Company



# INSTANT GAS WATER HEATER

## Product particulars



# TECHNICAL DATA

Type of Appliance		Tankless gas water heater
Flue system		Natural flue
Rated Gas Pressure	LPG	2800 Pa (0.4PSI)
Temperature Range		35-65°C (95-149°F)
Connections	Gas Inlet	G 1/2"
	Cold Water inlet	G 1/2"
	Hot water outlet	G 1/2"
Ignition system		Direct electronic ignition
Applicable water pressure		0.02 -1.0 mPa/ 3-145 PSI
Power supply		DC 3V (2D Cell Batteries)
Model		VH732
Heat Input		12KW
Max Flow Rate(rise 25°C/77°F)		6kg/min
Max Flow Rate(rise 20°C /68°F)		8kg/min
MEAS(L*W*H)		16.9*11.8*4.7 Inch
Weight		11.0 Lbs
QTY		1 PC

# INSTALLATION

## In the Box.

Item	Description	Identification	Quantity
A	6L outdoor portable tankless gas water heater		1 set
B	Portable handle		1 piece
C	Wind shield		1 piece
D	ON/OFF switch shower head with 1.5M hose		1 set
E	CSA certified gas regulator with 1.5M hose		1 set
F	1/2" BSP female to 3/4" GHT male, of garden hose adapter		1 piece
G	1/2" BSP water inlet quick connector set		1 set
H	Teflon tape		1 roll
I	Hardware pack a. two screws for portable handle assembly b. two bolts for installing water heater to wall c. two crews for fixing shower siting base		1 set
J	Spanner		1 piece

## Getting Started

### Assemble the Portable Handle

Use the two set screws provided in the hardware pack to fix the portable handle to the gas water heater.



### Assemble the Wind Shield

Fix the wind shield to the top back panel of the gas water heater. (No screw needed)



### Install The Gas Water Heater

Use the top tab on the unit to suspend from a screw adequate to holding 15 pounds/6.8 KG. Place at a comfortable height without putting stress on the gas and water hoses. If the unit is to be permanently mounted, use screws to attach the bottom tab firmly.

 **WARNING**  
THE GAS WATER HEATER MUST BE VERTICALLY INSTALLED.

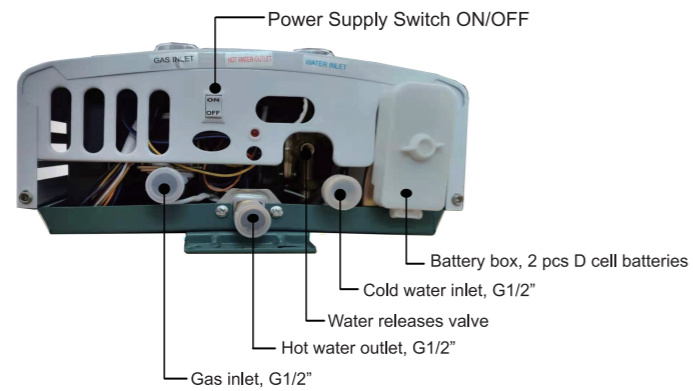


### Connecting The Water Lines

Attach your water source hose to the far right connection. Use Teflon tape or other approved sealing method on the threads for a secure, water tight fit. Check to make sure the screen inside the water inlet is in place and clean and then attach your water input/garden hose.

You Must use copper, CPVC or appliance tubing intended for use in hot water applications for all hot water lines. Use 1/2" or 3/4" pipe or tubing for the water supply.

## Identify the Connectors



1. If you are using 1/2" pipe with 1/2" female connector, you can directly connect to the cold water inlet male connector.
2. If you are using 3/4" pipe with 3/4" female connector, you can use the 1/2"-to-3/4" Adaptor provided to connect to the gas water heater.



3. If you are using 1/2" pipe without connectors, you can connect the pipe to the female quick connector, and use the quick connector set.



### Notice :

1. Make sure put the rubber gasket in all fittings before connection.
2. Ensure that you use supplied Teflon tape on all connectors.

## Connect the Shower Head

Attach shower nozzle to the fitting marked - Water Outlet (middle connection). Connect using hand pressure ONLY. If installing in an existing water system, connect the hot water line directly to the G1/2" fitting.



## Install Gas Supply Line and Regulator

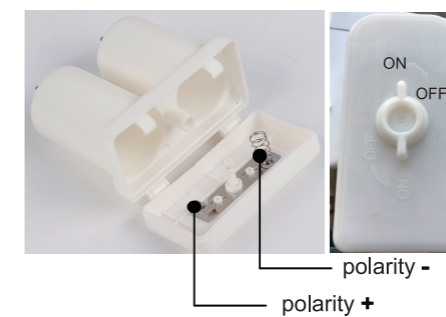
Install gas supply line and regulator to the water heater's gas inlet, ensure that the black rubber washer is installed inside of the gas connection line.

**DO NOT OVER TIGHTEN. OVER TIGHTING MAY CRACK THE GAS REGULATOR CAUSING A GAS LEAK!**

Check for any gas smell before ignition! Make sure it is screwed all the way on.



Install two D cell batteries in the compartment on the bottom left of the heater. Check that batteries are facing the correct direction.



The unit installs two D cell batteries.  
OFF position to open the door, and ON position to close.  
Check the door of the battery compartment for correct battery position.



### Precaution For First Use:

1. Connection: Make sure the connections of water and gas are done correctly before start igniting the gas water heater.
2. Water Flow: The water heater is water flow activated, the unit will not ignite if there is not enough water pressure.
3. Air Trapping: Air trapped in the hose. Cycle the unit on and off by starting and stopping the water flow several times, this can be as many as 10 attempts, depending on the amount of trapped air.

## WARNINGS

- For outdoor use only. This appliance should be operated in an open area protected from winds.
- Warning: accessible parts may be very hot, Keep young children away.
- Never move it during operation. Wait for about 7 minutes after use before moving the water heater.
- Check the gas type before you connect it to the water heater, improper gas could cause serious danger
- Do not use in high wind condition. This heater is not to be used in wind speeds above 10kph. The heater will extinguish at wind speed speeds above 10kph. This feature is governed by the safety feature fitted to the appliance.
- The appliance must be hung correctly before use. It should not be used on the ground and must be installed vertically.
- The exhaust gas and top of the unit is HOT! Do not place hands or any foreign object near the heater.
- If the smell of gas is detected, turn off the gas valve at the tank immediately! Do not use flame for leak detection.
- Do not leave unattended.

## OPERATING INSTRUCTIONS

1. Turn on incoming water supply.
2. Turn shower nozzle 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!!! DO NOT TOUCH THE "ON/OFF" SWITCH.**
5. Set the water regulator knob on the face of the unit to its highest setting - All the way to the left.
6. Set the gas regulator knob on the face of the unit to the half way mark.
7. Turn the "ON/OFF" switch on the bottom of the unit to "ON".
8. Turn the spray nozzle to the "on" position, turn your water source on and adjust to the desired water pattern on the shower head.
9. There will be a series of audible clicks and the burner will ignite. (Should the burner not ignite after 5 seconds, shut off and go to the "Trouble shooting" section.)
10. The gas water heater has a seasonal Summer/Winter switch to meet your water temperature needs. Use the summer setting when incoming water temperatures are a little higher. Use the winter setting when incoming water temperatures are a little lower.
11. After use, open the drain valve (ribbed cylindrical stem next to the water input valve) to ensure draining of water.
12. Turn off your gas supply.



## SAFETY MEASURES

- To prevent gas leakage, always close the main gas supply to the heater.
- Do not put any cloth or towel on the top of the gas water heater.
- If you smell gas or gas is detected, turn off the gas valve immediately! Do not use a flame for leak detection! Do not touch the "on/off" switch once you have turned it off! Call a qualified service technician immediately!

### FREEZING PREVENTION:

- In winter, if the water temperature goes below 4°C, drain the water completely from the gas water heater through the drain valve to avoid any damage to the heater because of freezing temperatures.
- If you do not plan to use the device for a long time:
  - Drain the water from the gas heater drain valve
  - Remove the batteries from the battery box
  - Please avoid touching the burner viewing window while the heater is on.
  - Check the gas pipe regularly for aging, cracks, etc., as these may cause gas leakages. It is recommended to replace the rubber gas tube at intervals of six months.

## MAINTENANCE

- The heater must be checked often for safe operation - please check it annually, at the very least, and more often depending on the frequency of use. This refers principally to the correct combustion of the main burners. Maintenance should be carried out by a qualified and authorized technician only.
- If the heater is installed in a place that has hard water, the following may occur over time:
  - Fall in hot water temperature
  - A reduction in hot water flow
  - This occurs because scale formation.
  - Since the scale formation is proportional to the outlet water temperature, to reduce scaling, it is recommended that you use water and the gas control knob to obtain the desired water temperature instead of mixing cold water with hot water.
- The scaling should be removed by an authorized technician only.

## TROUBLESHOOTING

### The unit does not start at all:

1. Make sure you have new batteries installed in the correct position. Check the cap of the battery case for instructions on how they should be installed.
2. Generally, the main reason why most units do not ignite is because there is not enough water pressure. The unit must have a minimum of 3 PSI (pounds per square inch) of sustained water pressure to turn on.
3. Verify that the water hose is connected properly. If this is not well-connected, the unit will not work. Check that the incoming water pipe is on the far right and the outgoing one is in the middle.
4. During shipping, if a wire had been disconnected, make sure that the gas valve and the switch are shut off. The front cover is held by four screws, two at the top and two at the bottom. The knobs can be pulled off. All the wiring is done by pushing together plastic connectors and everything becomes visible when the unit is dismantled.
5. There is the possibility of finding some kind of epoxy or debris within the water regulator. Check that the water inlet filter screen is clean. To flush the system you can reverse the hookup by taking the water inlet pipe and hooking it up to the water outlet side and back. If the gas cylinder is contaminated by air, turn the unit on and off several times to purge the air from the gas.
6. Verify that you have your water supply (cold water inlet) and shower handle (water outlet).

### Water flows through the unit, but there is no hot water coming out:

1. New batteries may be required for the ignition switch. Verify that the batteries are aligned in the proper polarity (+/-). Check the battery case for instructions on how to install the batteries properly.
2. Check that the water pressure is, at least, 3 PSI sustained.
3. Ensure that the Liquid Propane regulator is threaded all of the way to the unit and that you have an adequate amount of gas in your propane bottle.
4. Verify that you have hooked up both the incoming and outgoing water supply properly. The shower head should be attached to the outgoing water inlet (located at the center) and the water inlet should be attached to your incoming connection (located at the far right).

## More Troubleshooting Guide

Fault	Possible Cause	Solution
Igniters are firing but geyser not igniting	<ol style="list-style-type: none"> <li>1. Batteries are too weak to open the solenoid</li> <li>2. Gas supply is low or not open</li> </ol>	<ul style="list-style-type: none"> <li>• Replace with new good quality batteries</li> <li>• Replace the gas bottle or turn on the gas</li> </ul>
Ignition Failure (appliance does not ignite)	<ol style="list-style-type: none"> <li>1. Gas valve not open or no gas</li> <li>2. Air inside the gas pipe</li> <li>3. Gas hose is bent</li> <li>4. Batteries flat</li> <li>5. Batteries incorrectly fitted</li> <li>6. Hot/Cold Switch in the incorrect position</li> </ol>	<ul style="list-style-type: none"> <li>• Open gas valve or change gas bottle</li> <li>• Open &amp; close the hot water until the flame ignites.</li> <li>• Make sure the gas hose is straight and in order</li> <li>• Replace with a good set of batteries</li> <li>• Insert correctly, rear battery must be + down and front battery + up</li> <li>• Change switch to Hot position</li> </ul>
Reduced water flow rate	<ol style="list-style-type: none"> <li>1. Inadequate inlet flow rate</li> <li>2. Dirt in water inlet sieve</li> <li>3. Heat exchanger clogged (scale)</li> <li>4. Water pressure</li> </ol>	<ul style="list-style-type: none"> <li>• Check and adjust (adjust temperature control knob)</li> <li>• Clean</li> <li>• Clean and descale</li> <li>• Check pressure</li> </ul>
Water not hot enough	Gas supply pressure too low.	<ul style="list-style-type: none"> <li>• Check gas regulator or whether gas cylinder is freezing when appliance is in operation and check size of cylinder.</li> <li>• Check position of water temperature control and adjust to obtain desired hot water temperature.</li> </ul>
Geyser comes on and after a short while the water gets cold	The temperature is set too high, adding cold water will cause the geyser to shut off. This is either due to back pressure or the temperature has risen too high and the geyser shuts itself off	<ul style="list-style-type: none"> <li>• The temperature must be lowered by turning down the flame adjuster (LH Control Knob) to the left until temperature is reduced.</li> </ul>
Flame goes out after a short while appliance is in operation	<ol style="list-style-type: none"> <li>1. Gas regulator blocked</li> <li>2. Water inlet sieve blocked</li> </ol>	<ul style="list-style-type: none"> <li>• Bleed a little gas from all new gas bottles prior to connecting to regulator.</li> <li>• Change the regulator</li> <li>• Remove water inlet pipe and clean the sieve if blocked</li> </ul>
Geyser making a loud noise when igniting	<ol style="list-style-type: none"> <li>1. Faulty gas regulator</li> <li>2. Gas may be low</li> </ol>	<ul style="list-style-type: none"> <li>• Change regulator</li> <li>• Change gas bottle if low</li> </ul>