



MAREY[®]

HEATER CORP.

PORTABLE TANKLESS GAS WATER HEATER
INSTRUCTION MANUAL



GA5PORT MODEL

Keep this manual with you after your unit has been installed,
you may need it for further technical information.





Congratulations! You've just purchased a new Marey Portable tankless water heater, and will soon begin enjoy the benefits of "going tankless".

Use this manual to guide you through the installation and operation, as it contains important safety tips and instructions.

Please take the time to thoroughly read and understand the safety and installation manual in its entirety before you attempt to install your new Portable tankless water heater.

If you are not familiar with basic plumbing and electricity we highly recommend that you consult the services of a professional to assist you with this installation.



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WARNINGS

Caution

To identify a gas leak, a peculiar scent was added to Natural and Liquid Propane Gas. If you are unfamiliar with the smell of Natural or Liquid Propane Gas, please consult your local gas supplier. They maybe some conditions that can cause the scent to diminish in intensity, making it difficult to identify a gas leak.

- Liquid Propane Gas is denser than air and will amass first on lower areas making it difficult to detect at nose level.

- Before attempting to light the unit uses a soapy solution to check all gas fittings and connections. Bubbling at a connection indicates a gas leak that must be corrected. Also make sure to smell for gas leaks. When smelling to detect a gas leak, be sure to sniff near the floor also.

- Installing Gas detectors is highly recommended for both Liquid Propane and Natural Gas applications. Please refer to local laws, regulations and manufacturer's recommendations in order to correctly install a gas detector in your house.

- Units using Natural gas are different from Liquid Propane models. For your safety do not uses natural gas with Liquid Propane Unit and vice versa.

- You should never attempt to convert the water heater from Natural Gas to Liquid Propane.

- Do not connect the unit to a fuel type that is not in accordance with the specifications to avoid possible, fire, equipment damage or personal injury.

Other Precautions

1. This unit only uses Liquid Propane Gas.
2. Please do not place hands or other objects on top of the heater or the exhaust gas pipe, it is very hot.
3. If the smell of gas is detected, turn off the gas valve at the tank immediately.
4. Do not use in strong wind conditions.
5. Do not leave unattended.
6. Do not over tighten the gas regulator connection to the unit with a wrench. This may break the gas inlet.



GENERAL DESCRIPTION

The MAREY PORTABLE liquid propane gas water heater is capable o delivering 1.4 GPM (gallons per minute) - 5 (LPM liters per minute). This unit has a standard 1/2"NPT pipe fittings and an adapter for using a standard garden hose for inlet water supply.

Ignition is automatic and powered by 2 "D" cell batteries (not included). Burners come on when water pressure is more than 5 PSI, and off when the water is shut off.

A shower nozzle with multiple spray patterns is included.

For gas supply a standard 20 pound propane cylinder (not included) is required. This is similar to the gas tanks used with outdoor grills. A regulator with hose is furnished with the heater.

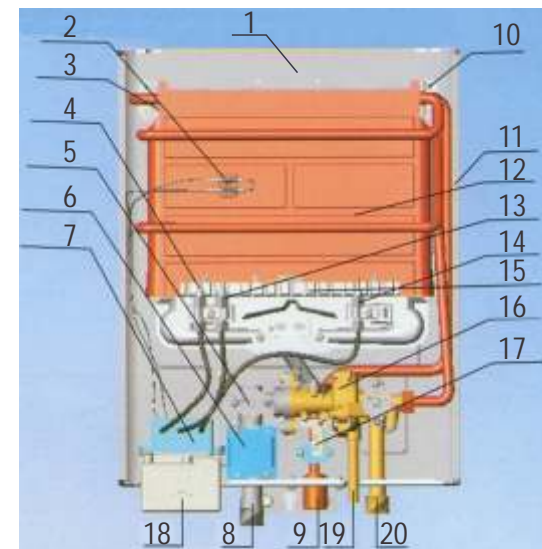
An additional safety feature of an automatic 20 minute shutoff timer that is reset each time operation stops or the shower head is turned off and back on.



Perfect for Camping!



COMPONENTS



- 1- Portable
- 2 - ODS Device
- 3 - Temperature Controller
- 4 - Sensor Pin
- 5 - Gas Adjusting Valve
- 6 - Solenoid Valve
- 7 - Pulse Generator
- 8 - Gas inlet
- 9 - Hot Water Inlet
- 10 - Wall Mounting Holes
- 11 - Back Plate
- 12 - Heat Exchanger
- 13 - Ignition Pin I
- 14 - Ignition Pin II
- 15 - Burner
- 16 - Water Adjusting Valve
- 17 - Micro-Active Switch
- 18 - Cell Box
- 19 - Release Device
- 20 - Water Inlet



HOW TO START

1. Check the box for damage. If damage is caused by shipment, it must be reported immediately.

2. Make sure you have all the parts:

a. Gas Regulator and Hand Shower Nozzle with ON/OFF Control



b. Hardware Pack and ½” NPT to Garden Hose Adapter



3. If you are using a regular standard garden hose, please use ½” npt to connect garden hose adapter include. Please use the sealing tape (teflon) on the threads to avoid leaks. Also check if the screen filter from the water inlet is in place, make sure it is cleans from any particular blocking the water entrance. Having this point done then you are ready to attach the water input/garden hose.

4. Install gas supply in to the inlet gas pipe. Do not over tighten, this can break or crack the inlet pipe. Make sure after tight it that inlet pipe is not moving to avoid any gas leaking or mal-function.

5. Connect the shower nozzle to the water outlet. Make sure you used teflon and connected by hand preasure only.

6. Install the two batteries size “d”. Look to the cap of the batteries case, it shows how to install the batteries correctly.

7. Use the top and bottom tab of the back cover heater to suspend it from the wall.

Do not use the handle to suspend. Make sure to install carefully using a backup hrench in the gas inlet hose to avoid stress and broken gas inlet pipe.

8. Attach the gas regulator by hand pressure to avoid any broken part and make sure the gas tank valve is off. Before hooking the gas valve connection, make sure it is completely in the off position.

Before going to the HOW TO USE section

Attention: Make sure that around the area there are no flammables, especially gasoline or other vapors that can ignite and there are no objects that can fall over. The exhaust and top of the unit will be hot.



INSTALLATION

1. Turn on incoming water supply ensuring that you have an adequate water pressure, between 5-145 PSI.

2. Verify that the shower nozzle is the off position.

3. Open the gas valve on the cylinder all the way.

4. If a gas leak is detected, turn off the gas valve IMMEDIATELY! Do not touch the “on/off” switch.

5. Set the water regulator knob 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” (the ON/OFF switch uses the international standard of “I” for ON and “O” for OFF).

8. Turn the spray nozzle to the “on” position.

9. You will hear a series of clicks and the burner will ignite. If the burner doesn't ignite after 5 seconds, turn off the heater and read the "Trouble Shooting" section.

10. To ensure draining of water, after use, open the drain valve (ribbed cylindrical stem next to the water input valve).

IMPORTANT: Ensure that the drain valve is opened and water drained from the unit after each use to avoid internal damage to the water regulator, if the outside

temperature is around or below freezing (32 degrees F, 0 degrees C). Unhook the outgoing water line to ensure that any water in the heat exchanger cause is drained. The lack of proper drainage in your unit may cause damage to the water heater that will not be repairable. See our warranty policy.



TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS - PORTABLE	
Fuel Type	LPG (Liquid Propane Gas)
Model	GA5PORT
Activation Flow Rate	2.2 LPM / 0.58 GPM
Maximum Flow Rate	5 LPM / 1.4 GPM
BTU/h	35,000 BTU/h
Related Gas Pressure	0.4 PSI
Aplicable Water Pressure	3.6 - 145.0 PSI
Ignition	Electric Pulse, D Cell Battery Powered (No electrical connection required)
Protections	Auto-cutt-off, water, controlled, automatic ignition, anti-dry combustion, over-pressure, overheating, flameout protection
Height x Width x Depth	17.0" x 11.4" x 4.7"
Weight	12 lbs
Pipe Fittings	½" NPT, incoming/outgoing water & gas
Energy Efficiency	54 - 87%



ADJUSTMENTS

The temperature of the incoming water with the amount of heat applied are influential in the temperature of the outgoing water.

1. Set the gas regulator to low, and the water regulator to high, feel the outgoing water. This is the lowest setting available.
2. To raise the outgoing temperature, turn the gas valve towards maximum. There will be a slight delay between increasing the gas supply and the increase in water temperature. If you want the highest setting available then turn water regulator all the way to the maximum. Adjust slowly and check the temperature often.

The unit will produce temperatures capable of harming the skin! Make sure that you test the water before taking a shower!

3. If you wish to use water without it being heated turn the ON/OFF switch at the bottom of the unit to "OFF" ("0"). This will disconnect the gas flow and igniters.



TROUBLE-SHOOTING

The units 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. Usually, the main reason most units does not ignite is that there is not enough water pressure. The unit must have a have a minimum of 5 PSI of sustained water pressure to turn on.
3. Verify that the water hoses are connected properly, if they are not the unit will not work. Check that the incoming is on the far right and the outgoing is in the middle.
4. The "On/Off" switch should be with the "—" sign pushed down.

ADJUSTMENT: On the bottom of the unit, you will see 2 oval holes in the case. The furthest hole on the right looks up at the water regulator where you will see two Philip head screws. Furthest on the right the is a screw that you must turn about a ¼ or ½. The unit will be able to operate on a lower water pressure by restricting the flow.

5. During shipping if a wire disconnected, make sure that the gas valve and the switch is shut off. The front cover is held by four screws, two at the top and two at the bottom. The knobs pull off. All the wiring is done with push together plastic connectors. When a further dismantling of the unit they are all visible.
6. There is a possibility that some epoxy or debris might have entered the water regulator. Check that the water inlet filter screen is clear of debris. To flush the system you can reverse the hookup by taking the water source and hooking it up to the water outlet side and back.

If the gas cylinder is contaminated by air, cycle the unit on and off several times to purge the air from the gas.



7. Verify that you have your water supply (water inlet) and shower handle (water outlet).

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

1. New batteries are required for ignition spark. Verify that the batteries aligned in the proper polarity (+/-). Check the battery case cap for instructions on how to install the batteries properly.

2. Check that the water pressure is, at least, 5 PSI, sustained.

3. Ensure that the Liquid Propane regulator is threaded all of the way on to the unit and that you have an adequate gas in your propane bottle.

4. Verify that you have hooked up the outgoing water supply and the incoming water supply properly. The shower head should be attached to the outgoing water (located at the center) and the water supply should be attached to your incoming connection (located on the far right).

The water is coming out warm.

The water is coming out warm

1. Check if there is a blue flame by looking on the viewer pane. If you see a yellow flame it could be a cracked gas regulator. Please call Marey Heaters Corp directly if this happens, do not attempt to use it.

2. The unit is being operated at an altitude above the 6,000 feet. The unit has been tested at altitudes of more than 7,000 feet but we only recommend using it below an elevations of 6,000 feet.

Unit starts for a short amount of time and then shut off

1. Check that the thermocouple is able to complete the circuit by checking that is flushed with the hole in the heat exchanger. This is possibly occurring because is either too low or high to complete it.

2. Look if the gas sensors have come loose or check that is properly connected.

3. If you run out of gas, if you have low gas, or if your Propane gas cylinders are contaminated with air (especially new tanks upon their first filling), than Cycle the unit on and off by using the shower head switch several times (5) to purge the air from the gas.

4. Strong winds.

5. This unit activate at a sustained water pressures of 5-145 PSI. If your house water pressure is below the minimum the unit will not activate. You will need a sustained water pressure of approximately 40-60 PSI for adequate use.

Dear Customer,

You have **30 days** from your purchase date to register in Marey Heater Warranty Program in our web site www.marey.com. Registration after 30 days voids Warranty. Warranty applies **only due to manufacturing defects**. Damage caused by customer due to a bad installation, exposure to extreme climate conditions, heaters with broken seal or unarmed interior are not covered by warranty. We highly recommend you to install your unit according to the Instructions Manual and with a specialized plumber / electrician.

Marey warranty cover parts and labor during its lifetime. The warranty does not cover reimbursement.

If the heater undergoes any changes under warranty and had been repaired within this period, it is your responsibility to contact Marey to notify the new serial number.

5 YEARS WARRANTY COVERAGE

Marey Heater guarantees this water heater to the original owner of the water heater at the original installation location against defects in material for the periods specified below.

WARRANTY PERIOD

1st month of purchase: cover parts, labor and shipping back and forth.

1st year of purchase: cover parts and labor. Customer should ship the unit to Marey Heater Corp Central Services in Puerto Rico in order to get it repaired.

2nd to 5th year of purchase: cover parts. Customer should ship the unit to Marey Heater Corp Central Services in Puerto Rico in order to get it repaired.

Note: Damage caused by exposure to freezing conditions is not covered by the warranty.

Note: Damage caused by scale formation is not covered by the warranty.

- EXCLUSIONS

1. THIS LIMITED WARRANTY SHALL BE THE EXCLUSIVE WARRANTY MADE BY THE MANUFACTURER AND IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED (WHETHER WRITTEN OR ORAL), FOR OTHER SELLERS OR DISTRIBUTORS.

2. Manufacturer shall not be liable for incidental, consequential, special or contingent damages or expenses arising, directly or indirectly, from any defect in the water heater or the use of the water heater.

3. Manufacturer shall not be liable for any water damage arising, directly or indirectly, from any defect in the water heater component part(s) or from its use.
4. Manufacturer shall not be liable under this warranty if:
- a) The water heater or any of its component parts has been subject to misuse, alteration, neglect or accident, or;
 - b) The water heater has not been installed in accordance with the applicable local plumbing and/or building code(s) and/or regulation(s), or;
 - c) The water heater has not been installed in accordance with the printed manufacturer's Instructions, or;
 - d) The water heater is not continuously supplied with potable water.
 - e) The possible damages caused for labor or other expenses incurred in the removal of the product or any expense shall.

TO REQUEST A REPAIR UNDER WARRANTY*

- The warranty seal should be intact
- Original purchase receipt will be required
- Your unit should be registered in the warranty program within 30 days of purchase


* If you bought your unit through e-commerce, please contact Marey Heater directly. DO NOT contact your seller.

GAS AND ELECTRIC HEATERS			
WARRANTY COVERAGE	PARTS	LABOR*	SHIPPING
1 Month	✓	✓	✓
1 Year	✓	✓	---
2-5 Years	✓	---	---



*Installation or Removable Service is not covered under warranty.

Customer Service Department
MAREY HEATER CORP. 


 **CUSTOMER SERVICE**

Marey Heater offers an excellent Customer Service. If you have any question about our product, information about how to install a unit, about our Warranty Services or if you want to share with us a suggestion, get in touch with us!



1-877-727-0277
service@marey.com

A Toll Free number for all your needs!

 **OTHER PRODUCTS**

Please visit our website to get to know more about other Marey products.



GAS PORTABLE



POWER PAK



SANTON



AQUAMATIC



MINI MAREY



POWER GAS



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