



# **GAS 30L NG/LP GAS**

**GAS TANKLESS WATER HEATER**

**INSTALLATION AND  
OPERATION MANUAL**



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

☎ USA (855) 627-3955

🌐 [www.marey.com](http://www.marey.com)

☎ PR (787) 727-0277



Congratulations! You've just purchased a new Marey Gas Powered Tankless Water Heater and will soon begin to enjoy the benefits of "going tankless."

The availability of instant hot water, combined with the unit's outstanding energy efficiency and space saving design, will quickly prove you that you've made the best decision for meeting your home's hot water needs.

Take the time to thoroughly read and understand this safety and installation manual in its entirety before you attempt to install your new gas powered tankless water heater, as it contains important safety tips and instructions.

Please carefully read all instructions and warnings. Should you have any questions, please visit [www.marey.com](http://www.marey.com) for installation videos and FAQ. Please keep this manual for future reference.

**WARNING:** This unit should be installed by a certified professional in accordance with all local building and plumbing codes. Under no circumstances should you attempt to install, repair, or disassemble the Marey Gas Powered water heater without first shutting off any gas supplied to the unit.

**WARNING:** If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.





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# 1. INTRODUCTION AND SAFETY WARNINGS

IMPORTANT: KEEP THIS MANUAL FOR FUTURE REFERENCE!

## 1.1 INTRODUCTION

Thank you for purchasing this Marey tankless water heater.

In order to ensure proper installation, safe operation, and long life, please carefully read these instructions. Installation should only be completed by licensed professionals. The use of professionals ensures the installation is in full compliance with all required building, plumbing and electrical codes.

Keep this manual for future reference. This booklet includes useful information about the product, maintenance requirements and the details of your product warranty.

## 1.2 IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS.

When using this equipment, basic precautions should always be followed.

### SAFETY DEFINITIONS



This symbol is the safety alert symbol which is used to alert you to potential hazards that can kill or hurt you and/or others.



Indicates an imminently hazardous situation which could result in death or serious injury.



Indicates a potentially hazardous situation which could result in death or serious injury.



Indicates a potentially hazardous situation which could result in minor or moderate injury. It may also be used to alert against unsafe practices.

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## 1.3 SAFETY WARNINGS

### DANGER

DO NOT use a fuel gas that is not listed on the nameplate as compatible with the water heater. Abnormal combustion or a deflagration may occur which can cause a serious accident. DO NOT use the unit if the vent piping has been damaged or altered in any way including cracking, separation, rusting, melting, etc. Improper venting may cause a buildup of Carbon Monoxide (CO) which can cause brain damage or death.

### WARNING

- If the water heater needs to be installed, moved, or serviced only utilize licensed professionals. The use of professionals ensures all work is in full compliance with required building, plumbing and electrical codes.
  - Keep the area around the appliance clear and free of flammable materials such as cloth, wood, aerosol cans, paper, gasoline, etc.
  - When using hot water for a shower or bath always check the water temperature before entry to avoid being scalded. Obey local codes for the maximum water temperature setting allowed. Water temperatures over 125°F (52°C) can cause severe burns or death from scalds. Households with small children, disabled or elderly persons may require a setting of 120°F (49°C) or lower.
  - This heater is designed only for the heating of water and should not be used for other applications or used to heat any other media.
  - Never use a fuel gas that is not listed on the nameplate as compatible with the water heater. Abnormal combustion or a deflagration may occur which can cause a serious accident including damage to the heater.
  - Do not use this appliance if any part has been under water. Consult a qualified service technician to inspect the appliance and make any required repairs prior to installation and operation.
  - This water heater is designed for indoor mounting. Never mount it outdoors.
  - This equipment should be installed in an area where water leakage from the unit or connections will not result in damage. The manufacturer is not responsible for any damages resulting from leaks.
  - Only connect gas and water as instructed. Incorrect or reversed connections will cause equipment damage and will not be covered under product warranty.
  - Do not over tighten connections or equipment may be damaged.
  - Do not install in areas that are subject to vibration.
  - This equipment shall not be operated without the vent pipe properly connected. The exhaust pipe must terminate in an area where the exhausting vapor or collecting condensate could create a hazardous situation or cause property damage. Exhaust gases must be vented out of the building in compliance with all building codes.
  - The exhaust piping is very hot during and for a period after use. Do not touch the pipe.
  - Ensure that snow, ice or other debris does not block the inlet or exhaust pipes.
  - Regular housekeeping should be done in areas around the heaters to prevent insect intrusion and possible equipment malfunction.
  - The unit should be serviced on a routine basis to ensure optimum performance. Service needs will vary based on local water conditions including acidity, alkalinity, hardness, etc.
  - Freezing temperatures will cause damage to the heater. Install in locations where freezing temperatures are not reached and follow procedures to drain the unit if it will be out of service for a period of time.
- FREEZE DAMAGE IS NOT COVERED UNDER THE PRODUCT WARRANTY**

- A 120 V / 60 Hz power source should be used. Fire, electrical shock or damage to the water heater may occur if an incorrect power supply is used.
- This appliance is equipped with a three-prong grounded plug for increased protection against electrical shock. Ensure the plug is properly inserted into a clean, dry outlet that complies with all electrical codes. Only insert and remove the plug using the plug head and never use a wet hand to plug or unplug the power plug.
- Any alterations to the appliance will void the warranty unless instructed by a Marey technical support representative with an original spare part supplied by Marey.
- Should overheating occur or the gas supply fails to shut off, turn off the manual gas control valve to the appliance
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
- Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.
- Verify proper operation after servicing.



## 2. OPERATION

### DESCRIPTION OF OPERATION

Gas tankless water heaters provide an efficient reliable supply of hot water.

The temperature can be adjusted between 35°C - 60°C (95°F - 140°F).

Only a small amount of water and a low water pressure (15psi) are required for the unit. Unit requires 0.67 gpm (2.5 l/min) to enable the unit. Unit stays in operation until the flow drops below 0.53 gpm (2 l/min).

The burner ignition is electronic. The unit has no pilot light and consumes no gas when the heater is not being used.

The unit's integrated control system constantly monitors the temperature of the water being produced and adjusts the burner accordingly to deliver a stable supply of hot water.

The unit is highly flexible and provides hot water over a wide range of flow rates and incoming water temperatures across the capacity range of the unit.

Keep the combustion air vent pipe location free of chemicals, such as chlorine or bleach, that produce fumes. These fumes can damage components and reduce the life of your appliance. Damage and repair due to scale in the heat exchanger is not covered by warranty.

Always check the water temperature before entering a shower or bath.

Do not adjust the parameter settings unless specifically instructed to do so.

This Marey water heater includes convenient H<sub>2</sub>O Saver Technology™, a digital functionality that allows owners to control hot water consumption and conserve water.

Multiple protective functions are included such as no-load heating prevention, automatic shutdown in case of accidental flameout, automatic pressure relief, etc. to make the appliance both safe and reliable

## 2.1 OPERATING INSTRUCTIONS

### FOR YOUR SAFETY READ BEFORE OPERATING

**WARNING :** If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.

B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

#### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone.
- Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to operate. Never use tools. If the appliance does not operate properly, don't try to repair it, call a qualified service technician. Forced or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

## OPERATING INSTRUCTIONS

### NORMAL OPERATION

This section of the manual instructs an owner on routine operating procedures and assumes that the water heater has already been installed, tested, and approved for operation. Initial start up requirements are detailed in the "Installation" section of this manual.

### ROUTINE START UP

Follow this procedure for a heater that has been out of service.

## TO TURN OFF GAS TO APPLIANCE

1. Shut down the water heater by pressing the “ON/OFF” button.
  2. Close the fuel gas valve.
  3. Unplug the power cord
  4. Use dry hands. Exercise caution and only unplug by grasping the plug head and pulling. Note, all factory settings will be restored next time the unit is turned on.
1. Close the water inlet valve.
  2. Open all hot water faucets.
  3. Obtain an appropriate container to collect the residual water from the system.
  4. Turn off all electric power to the appliance if service is to be performed.

## CONTROL PANEL

The Control Panel and display are used to adjust the operational settings of the unit as well as give information about the current state of operation. The following illustration shows all possible symbols and signs that may appear in various states of operation. In operation only the symbol or sign corresponding to the actual state will appear on the control panel display. The water heater is in an operating state when the hot water temperature is shown.



Figure 1- Control Panel Diagram

## CONTROL PANEL INDICATIONS

### LED display

1. Power on press the POWER key, the water heater is in the startup state. At this time, the temperature display displays the current set temperature, the temperature setting range is 35°C~ 60 °C(95F-140F), and the factory default setting temperature is 42°C.

2. The water heater can be used in three modes, including “Auto”, Bath” and ECO”. The factory default is AUTO mode.

"AUTO mode": the water heater automatically matches the best operation state according to the temperature needs set by the user.

"Bath mode": the user can set the water injection volume and set the temperature in the bath mode. When the current water injection volume of the water heater reaches the set value, the buzzer of the water heater will make a sound to remind the user to turn off the water. In bath mode, the default setting temperature is 50°C; Set the temperature to increase or decrease by 1°C each time. The default water volume is 40L, the water volume setting range is 40L ~ 980L, and the set water volume increases or decreases by 20L each time.

"ECO mode": the water heater can save more gas than under the ordinary mode.

3. "Flame icon": indicates the current working state of the water heater. When the flame icon is always on, it indicates that the water heater is in working state. When the flame icon is not on, it indicates that the water heater is in standby or fault standby state.

"WiFi icon": indicates the current networking status of the water heater. When the WiFi icon is always on, it indicates that the water heater is successfully networked. When the WiFi icon is not on, it indicates that the water heater is disconnected.

"Fan icon": indicates the current state of the water heater fan. When the fan icon flashes dynamically, it indicates that the water heater fan is in operation. When the fan icon is not on, it indicates that the water heater fan is in static state.

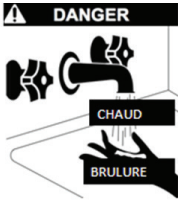
"Water flow icon": indicates the water flow status in the water heater. When the water flow icon flashes dynamically, it indicates that the water in the water heater is in circulation. When the water flow icon is not on, it indicates that the water heater is in the state of water cut-off or too small water flow.

“+” and “-” key: used to set the water temperature or set the water injection volume in the bath mode. Each time you press the “+” and “-” key, set the temperature to increase or decrease by one degree, and set the water injection volume to increase or decrease by 20L each time. If you need to quickly set (temperature or water injection), you can continuously increase or decrease by long pressing the “+” and “-” key.

Mode selection button: the user can select and set the current mode through the mode selection button. With each click, the water heater exits the current mode and enters into the next working mode.

POWER key: used to control the shutdown / standby / fault reset and other working states of the water heater.

## DANGER



## SCALD PREVENTION

- Water temperatures over 125°F (52°C) will scald and can instantly cause severe burns or death!
- Children, disabled and elderly are at highest risk of being scalded
- Always test the water temperature by feeling the water prior to entering a shower, bath, etc.
- Obey all codes regarding temperature set point.
- Contact a licensed plumber or local plumbing authority for clarification or additional information.

## CAUTION

## IMPORTANT!

The volume measurement only keeps track of the water volume that passes through the water heater. For example, if hot water going to a tub is combined with cold water, the volume computed would not be representative of the total amount that may have filled the tub. This could lead to an overflow or damage!

## POWER OUTAGE

In the event of a power outage or if the unit is unplugged, settings are restored to their factory default values.

## 2.2 EXTENDED SHUTDOWN

### EXTENDED OUTAGE PROCEDURE

If a heater will be out of service for an extended amount of time, use the following procedure to protect the unit.



## NOTES

\*Cold air may enter the unit through the air intake or the exhaust system. Take precaution for extended shutdowns even if unit is installed indoors in an area that does not allow direct exposure to freezing temperatures.

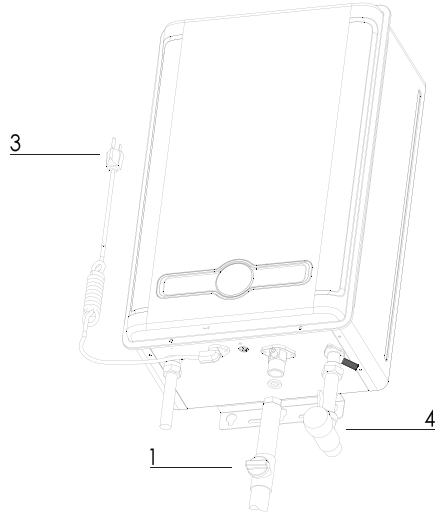
\*Temperatures at or below 0°C (32°F) can cause permanent damage the unit and/or the piping system due to freezing.

\*After a power outage, all settings return to their factory default values.

**⚠ CAUTION**

The heater and water within the unit may be very hot. Allow time for the system to cool and use caution when draining to minimize risk of injury.

1. Shut down the water heater by pressing the “ON/OFF” button.
2. Close the fuel gas valve (1).
3. Unplug the power cord (3).
4. Use dry hands. Exercise caution and only unplug by grasping the plug head and pulling. Note, all factory settings will be restored next
5. Close the water inlet valve. (4)
6. Open all hot water faucets.
7. Obtain an appropriate container to collect the residual water from the system.



**⚠ WARNING**

Prevent water from being discharged on the floor to avoid damage. Prevent water contact with any electrical source in the vicinity.

1. Open the drain plugs and completely drain the water heater.
2. Continue draining to empty the whole hot water system.

Note: Freezing temperatures below 0°C (32°F) can cause permanent damage to the heater and/or the piping system.

3. Reinstall the drain plugs and close the hot water faucets.
4. To return a unit to operation, please refer to “Routine Start Up” found in the Operating Instructions section of this manual.

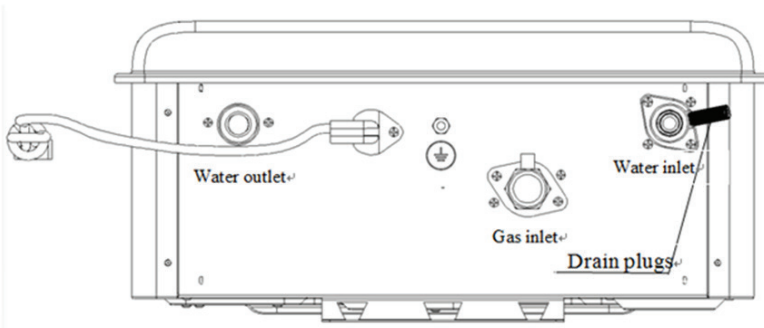


Figure 1- Drain plug location

## 2.3 COLD WEATHER WARNINGS

### FREEZING DAMAGE POTENTIAL AND PRECAUTIONS

Freezing temperatures can damage the water heater and/or water piping. Freezing water expands rapidly and can create tremendous mechanical forces. Mechanical damage and pipe ruptures can result from only brief exposure to freezing temperatures.

For best results, completely shut down the system by following the Extended Outage Procedure section of this manual.

In cold regions, insulating material or heat tracing can be used to protect pipes and fittings. Please consult your dealer if necessary.

### COLD WEATHER WITH POTENTIAL FREEZING TEMPERATURES

Keep water flowing through the system to guard against freezing.

Follow these steps:

1. Close the fuel gas valve.
2. Turn off the power by pressing the “ON/OFF” button.
3. Open the hot water faucet at one or more points of use (sink, upstairs bathtub, etc.)

Maintain a constant trickle. Monitor the stream of water to ensure it is still flowing.

### NO FLOW DUE TO EXPECTED FROZEN HEATER

1. Close both the fuel gas valve and the water inlet valve.
2. Turn off the power switch.
3. Open a hot water faucet.
4. Open the water inlet valve now and then to check for a water flow.
5. If no flow, attempt to thaw heater by using a portable heat source such as a hair dryer or portable electric heater.
6. Check occasionally to see if water flow has started.
7. When water flow resumes, carefully check for any signs of water leakage.
8. Resume normal operation

### WARRANTY

Damage caused by freezing is NOT covered by Warranty.



To prevent damage, NEVER force a heater to operate while in a frozen state. NEVER bypass any safety feature.



# MAINTENANCE AND INSPECTION

## ROUTINE INSPECTION

### CAUTION

The heater and exhaust piping will be hot during and shortly after use. Use caution when working in the area around the heater.

To keep your water heater operating optimally please refer to the below recommended inspection and maintenance checklists. Marey recommends a periodic inspection performed by a qualified service technician. An annual inspection is normally sufficient. Frequent visual inspections by the owner are recommended. Any repairs should be performed by a qualified service technician using only factory authorized components.

### ROUTINE INSPECTION CHECKLIST

- Any flammable materials in the vicinity of the water heater or exhaust piping?
- Any unusual noises coming from the heater while in operation?
- Are the air intake and exhaust free from any blockage or foreign objects?
- Signs of water leakage around the water heater or pipes?
- Any signs of water leaking near heater or pipes?
- Any abnormal appearance to unit casing?

### MAINTENANCE CHECKLIST

- Clean outside of unit and control panel
- Use a wet cloth to remove any surface dirt. Use a dry cloth to wipe it dry.
- A very mild detergent may be used if unit is very dirty.
- Never use any petroleum based cleaners or solvents. These solvents can damage the panel.
- Check and clear Air Intake of any debris that might impede air flow.
- Clean inlet water screen
- Examine venting system
- Clean inside of unit by vacuuming or blowing out dust that collects in the unit. Do not open the burner this cleaning should only be done by authorized service personnel.
- Visual flame inspection
- Lime scale cleaning

## MAINTENANCE PROCEDURES

### BURNER INSPECTION AND CLEANING

1. The burner must flame evenly over the entire surface of the burner head when operating correctly.
2. The flame should burn with a clear, blue, stable flame.
3. Presence of a yellow flame or of black deposits on the burner head indicates cleaning and/or burner replacement should occur.

### MAINTENANCE BLOWER

1. The fan motor is permanently lubricated and does not require periodic lubrication.
2. If the motor fails, it must be replaced by a qualified technician only.

### PURGE THE PRESSURE RELIEF VALVE

If a pressure relief valve discharges periodically, this may be due to thermal expansion occurring in a water supply system in a closed circuit. Contact the water supplier or local plumbing inspector for the best way to solve this problem. Do not block the pressure relief valve.

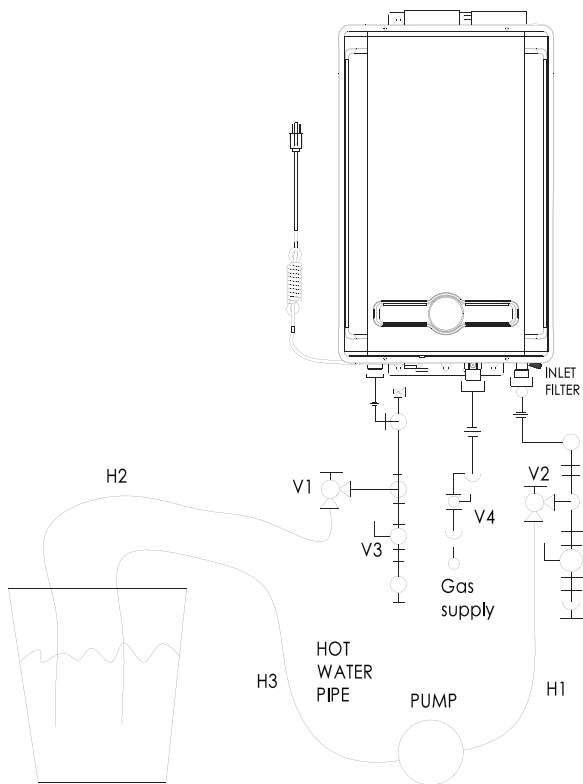
### LIME SCALE CLEANING PROCEDURE

Materials required:

- Five gallon container
- Four gallons of virgin food grade white vinegar or virgin food grade citric acid
- Small inline recirculation pump capable of circulating 2 - 4 gpm (8 – 16 l/m)
- Set of hoses for connecting recirculation pump to and from the pump and the five gallon container.

Refer to the diagram on the next page to complete this procedure.

1. Disconnect electrical power to the water heater.
2. Close the shutoff valves V3 and V4 on both the hot water and cold water lines.
3. Connect a hose H1 from the pump outlet to the cold water line V2 into the heater.
4. Connect drain hose H2 from the hot water outlet line V1 and route into five gallon recirculation container.
5. Pour approx. four (4) gallons of virgin, food grade, white vinegar or citric acid into pail.
6. Place the pump suction hose H2 into the cleaning solution
7. Open valves V1 and V2 into the water heater.
8. Operate the pump. Circulate the cleaning solution through the water heater for at least 45 minutes.
9. Turn off the pump.
10. Rinse the cleaning solution from the water heater by closing valve V2 and opening valve V4, flow water through the heater and into a container or drain for at least five minutes.
11. Close Valve V1 and Open Valve V3 this places the house back online.
12. Disconnect all hoses.
13. It is also wise to clean the water inlet screen at this time. Close Valve V3 and V4 to do so. Clean the water inlet screen and remove any debris.
14. Replace the screen and open valves V3 and V4 once more. Checks for leaks.
15. Return heater to operation by following start up instructions.



## ELECTRICAL MAINTENANCE WARNINGS



**CAUTION** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Always verify proper operation after servicing.

## 2.4 TROUBLESHOOTING

For operating difficulties with your unit, please consult the following table for guidance. If you need further assistance, call Marey toll free service and support line at 1-855-627-3955. Please have product information ready when you call including serial number, date of purchase and error code if shown on the control panel.

**Note:** Please check water heater for an error code and respond according to recommendations found in “Error Codes” portion of this manual.

Issue	Possible Cause	Solution
No power: Power indicator lamp is not lit	Power outage	Unit requires 120V power. Use unit when power is restored. Check circuit breaker and reset if needed. Check ground fault circuit interrupter (GFCI) if circuit includes one and reset if necessary.
	Unit is unplugged	Check power plug and ensure properly plugged. Plug the power plug properly.
There is no hot water flow when a hot water faucet is opened.	No/empty fuel source	Fuel gas valve needs to be open Refill source tank (if applicable)
	Water valve closed	Open the water inlet valve.
	Power outage	Unit requires 120V power to operate.
	Flow is too low or became too low. (less than 0.66 gallons per minute (gpm) or 2.5 liters per minute (l/m)	Flow is below the lower limit necessary for stable burner operation and proper temperature control. Increase the hot water flow to enable system.
	Freezing temperatures may have frozen water in the heater or hot water system.	See “No Flow Due to Expected Frozen Heater” section of this manual for procedure to thaw unit.
	Fuel gas meter special control restrictions	Some fuel gas valves may have special restrictions or digital controls that use. Consult your gas supplier and/or a service professional for assistance.
Distance from heater to source is long	Allow time for hot water to travel through system to reach the point of use.	
Issue	Possible Cause	Solution
Hot water is not the right temperature (too hot or too cold)	Temperature set point was reset due to power outage.	Power outage restores default settings and custom set points must be re-entered to unit
	Flow is beyond capacity	Desired water flow is above maximum capacity of unit. Reduce user flows to re-establish control of temperature
	Incoming water is too warm	If incoming water to unit is very warm and the flow is just above minimum requirements, the heat generated by the burner while operating at minimum capacity can make the water hotter than desired. Increase the hot water user flow so that the burner system can control the temperature.
Hot water flow produced is lower than expected	Water source is restricted	Check and fully open water inlet valve(s) Check and clean inlet water screen
	Heat exchanger in unit is scaled	Clean heat exchanger by flushing per maintenance procedure.
	Incoming water temperature	Colder than normal incoming supply water

The hot water coming appears white and turbid.	Small bubbles may appear when water is heated. Air dissolved in water may evolve when water is heated.	None. Normal operation.
<b>Issue</b>	<b>Possible Cause</b>	<b>Solution</b>
Vent system trouble	Vent system is restricted in some manner.	Check air intake and exhaust ducts to ensure they are not damaged, corroded, blocked, etc.
“Smoke” observed coming from exhaust system during cold temperatures	Water vapor produced during combustion is condensed in the exhaust as the hot gas is cooled by the outside air.	None. Normal operation.
Water leaking from safety valve outlet	Water system is operating above design pressure.  Safety valve is damaged.	Consult professional for system review.  Replace safety valve. Consult professional as required.
Blower fan noise can be heard for some time after operation stops.	The blower is designed to run for 30 seconds after burner shuts off.	None. Normal operation
The volume alarm does not sound even though the volume appears to be adequate	Units incorrect during input  Measuring flow of only hot water instead of hot water and cold water combined	Refer to “H2O SAVER TECHNOLOGY™ - Set a Desired Volume” section to ensure units (metric vs. English) and volume (displayed volume number represents 1/10th of the actual total flow) are correctly set.  The volume measurement only keeps track of the water volume that passes through the water heater. If hot water going to a tub is combined with cold water, the volume computed would not be representative of the total amount that may have been dispensed.
Unresolved problem	Other assistance required	Consult Marey or contact an authorized service professional.

## 2.5 DIAGNOSTIC CODES

Whenever a failure occurs, an alert sounds and a diagnostic code is displayed to indicate the failure mode at the time of occurrence.



Figure 1 - Control Panel  
Example- Displaying Error  
Code E2

The following table includes a list of diagnostic codes that can be displayed as well as recommended

<b>Error Code</b>	<b>Possible Cause</b>	<b>Solution</b>
E0	Outlet water temperature sensor failure	Contact a dealer or qualified service technician
E1	Ignition failure	Check the gas pressure, no gas or gas pressure lower Press the ON/OFF to Reset; Contact a qualified service technician
E2	Flame failure(during working)	Check the gas pressure, no gas or gas pressure lower; Press the ON/OFF to Reset; Contact a qualified service technician
E3	Dry burning(over temperature) protection	Temperature higher than 85°C has been detected. Check the water pressure, water pressure too low. Contact Marey technical support.
E4	Inlet water temperature sensor failure	Contact Marey technical support.
E5	Fan failure	Contact Marey technical support.
E6	Water sensor overheat protection	Inlet temperature $\geq 75^{\circ}\text{C}$ , check the temperature sensor; Outlet temperature $\geq 85^{\circ}\text{C}$ ,check the temperature sensor.
E7	Proportional valve or Solenoid valve failure	Contact Marey technical support.
E8	Flue pipe outlet blockage	Check the air intake/exhaust flue duct; Press the ON/OFF to Reset.
E9	False Flame	Press the ON/OFF to Reset; Contact Marey technical support.



## 3. INSTALLATION

### 3.1 INSTALLATION GUIDELINES

Only properly qualified personnel should install this equipment. Improper installation or installation by a non-qualified installer may void warranty. Failure to comply with state and local codes pertaining to water heater installations may void also warranty.

Water heaters are suitable for installation as a single stand unit. These guidelines are for the installation of a single unit.

This appliance shall NOT be installed outdoors.

The appliance and its gas connection must be leak tested before placing the appliance in operation. A qualified installer or service technician should inspect and leak test system before use.

The installation must comply with local codes. In the absence of local codes the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1 shall prevail. If installed in a manufactured home, the installation must confirm with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 or the Canadian standard CSA Z240 MH Series, Manufactured Homes.

The appliance must be electrically grounded in accordance with local codes. In the event there are no local codes, the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1 shall prevail.

Maximum and minimum inlet gas pressure:

MODELS	INLET GAS PRESSURE	
	MAX.	MIN.
GA30NG	10.5"wc (2.5kPa)	3.5"wc (870Pa)
GA30LP	13.0"wc (3.23kPa)	8.0"wc (1.99kPa)

The appliance and its individual shut off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psi (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psi (3.5 kPa).

The gas pressure will be between these values 3.5 in W.C. (870 Pa) 10.5 in W.C. (2610 Pa) for natural gas and 8.0 in W.C. (1990 Pa) 13.0 in W.C. (3230 Pa) for liquid propane.

The appliance should be located in an area where leakage of the tank or connections will not result in damage to the area adjacent to the appliance or to lower floors of the structure. When such locations cannot be avoided, it is recommended that a suitable drain pan, adequately drained, be installed under the appliance. The pan must not restrict combustion air flow.

Do not obstruct the combustion air intake or heater exhaust and ensure air intake is not near an area that will allow chemical fumes to enter the combustion air system.

Do not use to heat pools or spas (hot tubs) that use chemically treated water.

If a water heater is installed in a closed water supply system, such as one having a backflow preventer in the cold water supply line, means shall be provided to control thermal expansion. Contact the water supplier or local plumbing inspector on how to control this situation.

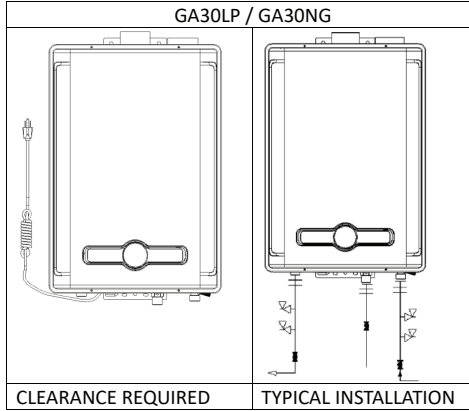
## 3.2 PACKING LIST

The following contents are included. If any items are missing contact Marey toll free support line: 1-855-627-3955.

Item	Item#	Quantity
Water heater	A	1
Installation and user guide	B	1
Expansion screw	C	3
Seal ring	D	2
Tapping screw	E	2
Expansion dowel	F	2
Pressure relief valve	G	1 (Optional)



### 3.3 LOCATION AND CLEARANCE REQUIREMENTS



#### LOCATION

Choose a location for unit installation taking into account the following guidelines.

- Unit must be installed indoors. Installation is not recommended in bathrooms, bedrooms or occupied rooms that are normally kept closed.
- Unit should have proper clearance as indicated below including ample clearance in front of unit for proper service access.
- Installation is recommended to be at a height that will allow easy viewing and operation of the control panel.
- Heater requires a standard three prong, 120 V /60 Hz grounded AC power outlet within X feet of installation location.
- Heater requires a 3/4" gas supply line(20mm).
- Ventilation requirements must be considered when choosing installation location. Minimizing vent piping will reduce installation costs and maximize efficiency.

#### CLEARANCE REQUIREMENTS

	ADJACENT MATERIAL COMPOSITION			
	NON-COMBUSTIBLE		COMBUSTIBLE	
SIDE	4 inches	100 mm	6 inches	150 mm
TOP	10 inches	250 mm	12 inches	300 mm
FLOOR	12 inches	300 mm	12 inches	300 mm
FRONT	24 inches	600 mm	24 inches	600 mm
FRONT	zero	zero	1 inch (25 mm) fireproof insulating panel required	

## MOUNTING

### WARNING

The heater **MUST** be installed in a vertical position with fuel gas inlet at the bottom and exhaust vent positioned at the top. Installation in any other orientation will result in damage and will void warranty.

1. Identify a suitable location per the “Location and Clearance Guidelines”. Ensure that the heater will be attached in a manner that is sufficient to support the weight of the heater in operation.
2. If the wall is not fireproof, the water heater should then be cushioned with a fireproof board, of which each rim projects beyond the corresponding rim of the water heater by 100mm and is 10mm off the wall.
3. For installation on concrete or block, drill three each 5/16” (or 8 mm) holes at the marked locations. Insert the supplied ¼” (6 mm ) steel expansion bolts into the holes.
4. For wall installation, locate a stud and use supplied mounting screws or hollow wall anchors. To use the hollow wall anchors, drill 5/16” holes at marked locations and insert the anchors into the hole. A combination of mounting screws and anchors is acceptable.
5. Remove the cover of water heater from carton.
6. Position the water heater into place. Fasten to the wall.
  - 1) 1. Installation height: It is appropriate to use the water heater display or the fire hole to be level with the horizontal visual height (generally 1.5m).
  - 2) After determining the height, mark the hole according to the water heater's hanging hole, drill a hole with diameter of Ø8mm and a depth of 50mm, and inserted into the M6 metal expansion bolt. The lower part drill a hole with diameter of Ø6mm and a depth of 35mm and inserted into two Ø6mm plastic expansion. Plug (Figure 1).
  - 3) Hang up the water heater and tighten the expansion screw and nut after visually perpendicular to the ground.
- 4) 621mm (24.45 inches) and 120mm (4.72 inches) are the distance of the hole.

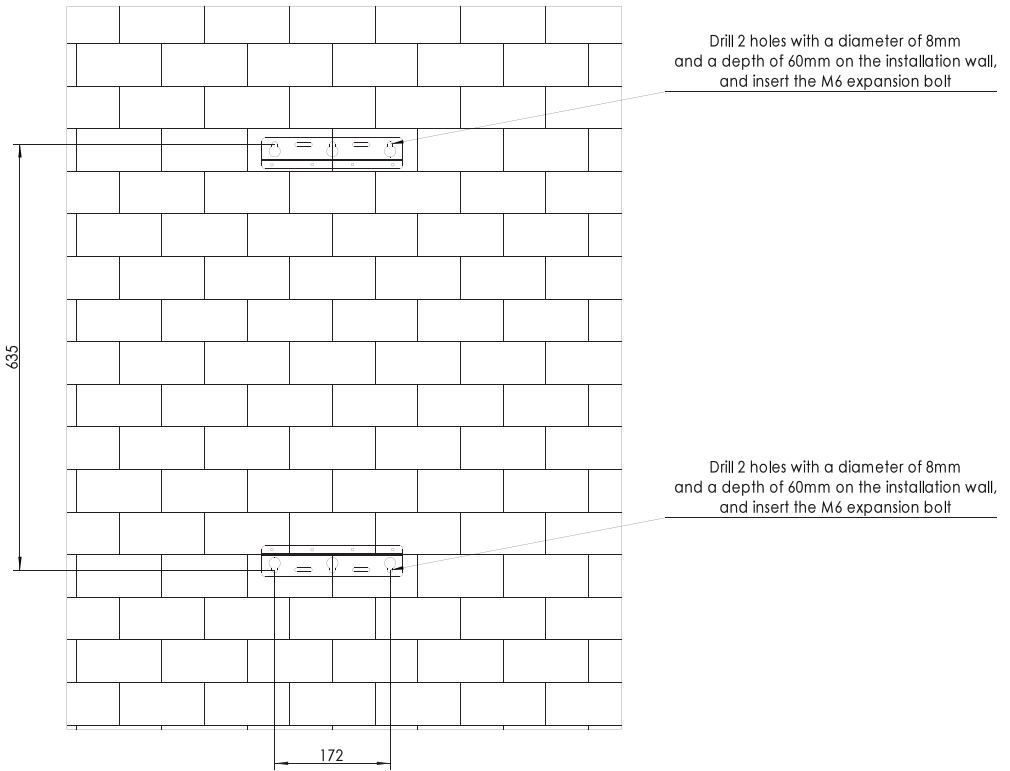


Figure 1.

## 3.4 ELECTRICAL

### WARNING

Ensure compliance with applicable electrical codes during installation including the U.S. National Electric Code (NFPA 70) or the Canadian Electrical Code – Part 1 (CGAS C22.1) depending on location. Ensure that a properly grounded 120 V/ 60 Hz three prong outlet is available. **DO NOT PLUG IN THE UNIT UNTIL INSTALLATION IS COMPLETE, TESTED, AND READY FOR INITIAL START UP.**

## 3.5 GAS PIPING

### WARNING

Gas piping should be sized, installed, and tested only by a licensed professional! Improper installation can result in improper equipment performance or a hazardous situation.

1. Check the fuel gas type before installation. **DO NOT** connect a unit if the gas type is not compatible. Contact Marey for the proper unit to match the gas type.
2. Check the gas inlet pressure immediately upstream at a location provided by the gas company. Ensure the gas pressure is within the limits shown in the Specifications section.
3. Review the installation location taking into account all gas users on site. Calculate the gas piping that will be required to service the installation. The gas supply line shall be sized and installed to provide a supply of gas sufficient to meet the maximum demand of the heater and all other gas consuming appliances at the location.  
Note: Reference the National Fuel Gas Code, NFPA 54, for proper line sizing.
4. Ensure any compound used on the threaded joints of the gas piping is compatible with LPG/Propane.
5. Use only approved materials to connect the unit to the gas line.
6. Install a manual gas valve in the gas supply line to the water heater. For best performance the water heater should be the first user downstream from the gas supply meter. A union can be used on the heater sized of the valve to allow for future servicing or disconnection of the unit.
7. Purge the gas line of any debris before connection to the water heater.
8. Connect to the water heater.
9. Leak check all joints including the heater for gas tightness. Use a leak detection solution, soap and water, or an equivalent nonflammable solution, as applicable.

### WARNING

Ensure any leak check solution is non-corrosive and is completely rinsed from the piping after leak check is complete. Corrosion of the gas piping and subsequent leaks could occur. **Never use flammable solutions or an open flame to test for gas leaks!**

## WATER PIPING

1. All piping, including soldering material, and components connected to this heater shall be approved for use in potable water systems.
2. If the heater has ever been previously used for heating non-potable water, never install the heater later into a potable water system.
3. The installation of manual shutoff valves, drain valves and unions are recommended. A professional should review each installation and ensure adequate ability to isolate, drain, and disconnect heater for service needs.
4. Connect suitable piping from water supply to the water heater. Note, water heater connections are ½" NPT.
5. This unit requires a pressure relief valve. The relief valve must be installed near the hot water outlet.
6. Purge the water line to remove debris and air. Debris can plug and damage the heater.
7. Install an inlet water filter at the cold water inlet. Ensure the filter is easily removable for inspection and cleaning.
8. Test water connections for leaks. Turn on water and purge water through the water heater and system. Flow for 1-2 minutes. Ensure all air is eliminated.
9. After filling and flushing the system, check the inlet water filter for debris and clean as required.
10. Consider insulation on hot water piping for energy conservation and personal protection. Do not insulate the pressure relief valve!

## 3.6 AIR INTAKE AND EXHAUST (VENT) SYSTEM

### WARNING

Improper venting of a water heater can result in levels of Carbon Monoxide which can result in severe injury or death!

### WARNING

This water heater must be vented in accordance with the “Venting of Equipment” section of ANSI Z223.1 / NFPA 54 National Fuel Gas Code –latest versions, or in Canada, the most recent version of CAN/CGA B149.1. Natural Gas and Propane Installation Code. In addition, all installations must completely comply with all applicable local building codes. Failure to comply can result in equipment failure, fire, personal injury or death!

### DANGER

Use only listed Type B vent or vent connector, plastic vent systems are not compatible and the failure of the vent system could result in damage, equipment failure, personal injury or death.

## INTAKE AND VENT PIPE INSTALLATION SPECIFICATIONS

- This tankless water heater is a Category III Water Heater.
- For best results always minimize the length of the vent system. Keep the vent pipe routing as short and straight as possible.
- The water heater vent must not be combined with the vent from any other gas appliance or vent stack.
- The water heater must not be connected to a chimney flue serving a separate appliance, designed to burn solid fuel.
- Do not combine use vent or vent connector from multiple manufacturers.
- The heater requires a direct vent. Exhaust vent must be of AL 29-4C Stainless Steel
- Vent directly to the outside of the building.
- The system must use outside air for combustion. Ensure the incoming air is not contaminated by any potential source of fumes or chemicals.
- Avoid any dips or sags in horizontal pipe runs.
- Ensure vent piping is supported every four (4) feet (horizontal runs) or six (6) feet (vertical runs) or in accordance with local code requirements.
- Do not reduce the diameter of the vent piping.
- Ensure all vent connections are installed, properly connected, and sealed air tight per manufacturer's instructions.
- Any vent pipe seams should be installed so they are oriented on the top of horizontal pipe runs.
- Slope exhaust piping towards the exhaust terminal with a 2% slope (1/4 inch per foot ; 19 mm/ m) to ensure rain or any accumulating condensate near termination are drained.
- A condensate collector is required for this system when there is a vertical vent configuration. A condensate collection point should be installed on the vertical run of piping just prior to the heater to ensure proper condensate drainage. Check with local codes for proper disposition and handling of condensate water, an air gaped drain is usually required and in some cases a condensate neutralization is also required.
- Do not store hazardous or combustible materials near the vent piping
- Ensure the air intake and vent termination points are at least 12”(300mm) above any possible snow accumulation level. The flows must not be impeded by snow or debris.
- Ensure the air intake and vent termination points are at least 24”(600mm) from any obstruction or other objects.

The exhaust pipe must maintain adequate clearances and be insulated with a fireproof material if it passes through walls made of flammable materials. Consult local codes and vent pipe manufacture documentation for proper material selection and installation requirements.

Minimum clearance of listed Type B vent or vent connector from a combustible wall or partition must conform to local code, or in the absence of local code, the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

## ⚠ CAUTION

If the heater will be installed in a building that has a system that maintains a negative pressure, it is possible for a back-draft to allow outside air to be pulled into the heater while not in operation. This can create a situation where freezing might occur within the heater. Please consult a professional for a properly designed venting solution or contact Marey.

## TERMINAL CLEARANCES

For water heaters other than for recreational vehicle installation, the following is information on where the vent terminal should and should not terminate, including:

1) A diagram as shown in Figure 2-A, Direct vent terminal clearances, for direct vent appliances or Figure 2-B, Other than direct vent terminal clearances, for other than direct vent appliances, or equivalent, indicating vent terminal clearances A to M. The clearances marked on the diagram shall be stated separately for US and Canadian installations and shall not be less than those specified in the current ANSI Z223.1/NFPA 54, National Fuel Gas Code, or CSA B149.1, Natural Gas and Propane Installation Codes, as applicable.

For clearances not specified in ANSI Z223.1/NFPA 54 or CSA B149.1, one of the following shall be indicated:

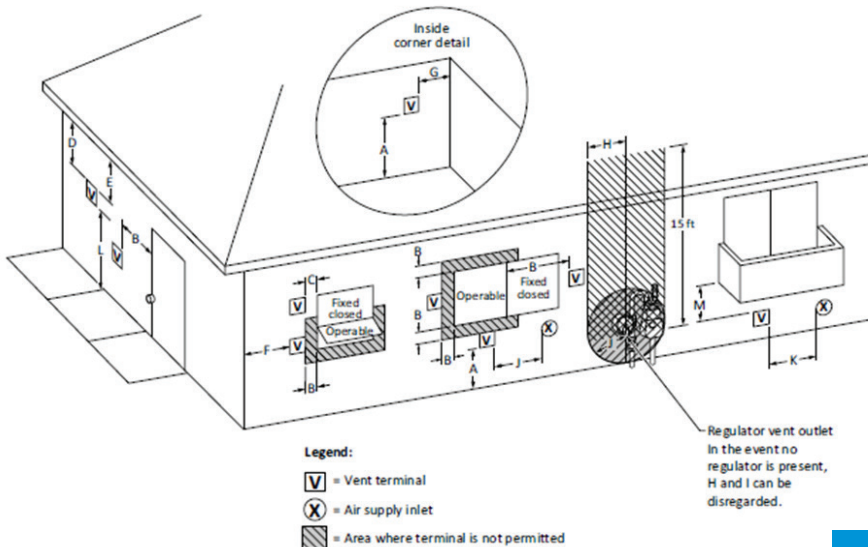
A) a minimum clearance value determined by testing in accordance with Clause 5.17, Wall, floor, and ceiling temperatures; or

B) a reference to the following footnote:

“Clearance in accordance with local installation codes and the requirements of the gas supplier.”

## DIRECT VENTING (TWIN PIPE)

Figure 2-A  
Direct vent terminal clearances



	Clearance Description	US Installations (1)	Canada Installations (2)
A =	Clearance above grade, veranda, porch, deck, or balcony	12 in (30 cm)	12 in (30 cm)
B =	Clearance to window or door that may be opened	12 in (30 cm)	36 in (91 cm)
C =	Clearance to permanently closed window	*	*
D =	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 ft (61 cm) from the center line of the terminal	*	*
E =	Clearance to unventilated soffit	*	*
F =	Clearance to outside corner	*	*
G =	Clearance to inside corner	*	*
H =	Clearance to each side of the center line extended above meter/regulator assembly	*	3 ft (91 cm) within a height of 15 ft (4.6m)
I =	Clearance to service regulator vent outlet	*	3 ft (91 cm)
J =	Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance	12 in (30 cm)	36 in (91 cm)
K =	Clearance to a mechanical air supply inlet	3 ft (91 cm) above if within 10 ft (3 m) horizontally	6 ft (1.83 m)
L =	Clearance above paved sidewalk or paved driveway located on public property	*	7 ft (2.13 m) **
M =	Clearance under veranda, porch, deck, or balcony	*	12 in (30 cm)***

Clearance to opposite wall is 24 inches (60 cm).

### Notes:

- (1) In accordance with the current ANSI Z223.1/NFPA 54, National Fuel Gas Code.
- (2) In accordance with the current CSA B149.1, Natural Gas and Propane Installation Code.

### AIR INTAKE PIPE ASSEMBLY

1. Drill 2 small holes at the end of the air intake pipe.
2. Slide the pipe over the air intake terminal.
3. Using a level, ensure the pipe is straight up and down.
4. With self tapping screws, attach the pipe to the air intake terminal.
5. Apply a bead of silicone around the pipe and air intake terminal, ensuring an air tight connection.

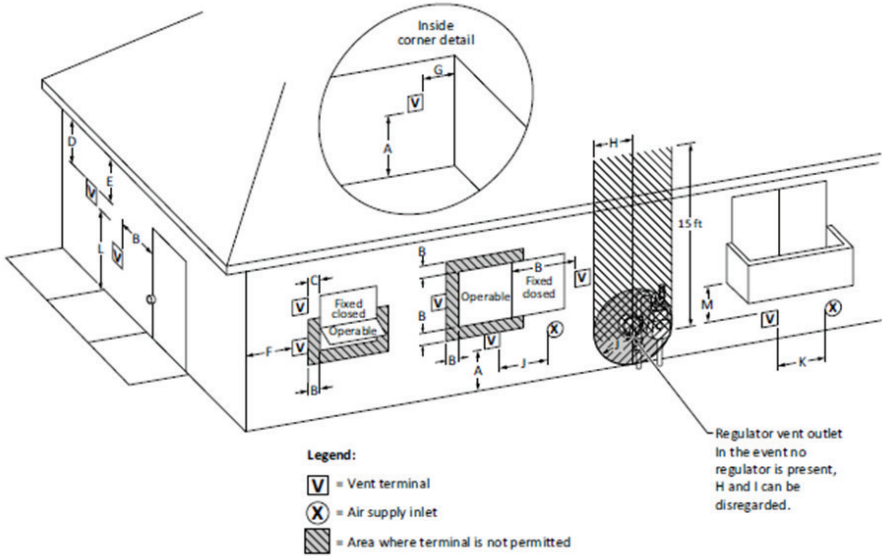
### EXHAUST VENT PIPE ASSEMBLY

1. Use manufactures universal adapter to connect the vent pipe to the unit.
2. The follow the Manufactures vent pipe assembly guidelines and sample diagrams below.
3. Please use UL certified stainless steel vent pipe as per the standard UL 1738 and ULC S636-BH.



# NON-DIRECT VENTING (SINGLE PIPE)

Figure 2-B  
Other than direct vent terminal clearances



	Clearance Description	US Installations (1)	Canada Installations (2)
A =	Clearance above grade, veranda, porch, deck, or balcony	12 in (30 cm)	12 in (30 cm)
B =	Clearance to window or door that may be opened	4 ft (1.2 m) below or to side of opening; 1 ft (300 mm) above opening	36 in (91 cm)
C =	Clearance to permanently closed window	*	*
D =	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 ft (61 cm) from the center line of the terminal	*	*
E =	Clearance to unventilated soffit	*	*
F =	Clearance to outside corner	*	*
G =	Clearance to inside corner	*	*
H =	Clearance to each side of the center line extended above meter/regulator assembly	*	3 ft (91 cm) within a height of 15 ft (4.6m)
I =	Clearance to service regulator vent outlet	*	3 ft (91 cm)

J =	Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance	4 ft (1.2 m) below or to side of opening; 1 ft (300 mm) above opening	36 in (91 cm)
K =	Clearance to a mechanical air supply inlet	3 ft (91 cm) above if within 10 ft (3 m) horizontally	6 ft (1.83 m)
L =	Clearance above paved sidewalk or paved driveway located on public property	7 ft (2.13 m) for mechanical draft systems (Category I appliances). Vents for Category II and IV appliances cannot be located above public walkways or other areas where condensate or vapor can cause a nuisance or hazard	7 ft (2.13 m)
M =	Clearance under veranda, porch, deck, or balcony	*	12 in (30 cm)

Clearance to opposite wall is 24 inches (60 cm).

**Notes:**

- (1) In accordance with the current ANSI Z223.1/NFPA 54, National Fuel Gas Code.
- (2) In accordance with the current CSA B149.1, Natural Gas and Propane Installation Code.

When installed in a manufactured home, all combustion air must be supplied from the outdoors.

\*\*A vent shall not terminate directly above a sidewalk or paved driveway that is located between two single family dwellings and serves both dwellings.

\*\*\* Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

\*\*\*\* For Category III water heaters, the venting system shall be installed in accordance with the water heater manufacturer's instructions.

# TERMINATION DETAILS

Install the correct venting for your model according to the venting manufacturer's instructions and the guidelines.

Refer to the manufacturer's technical literature for specific part numbers and instructions.

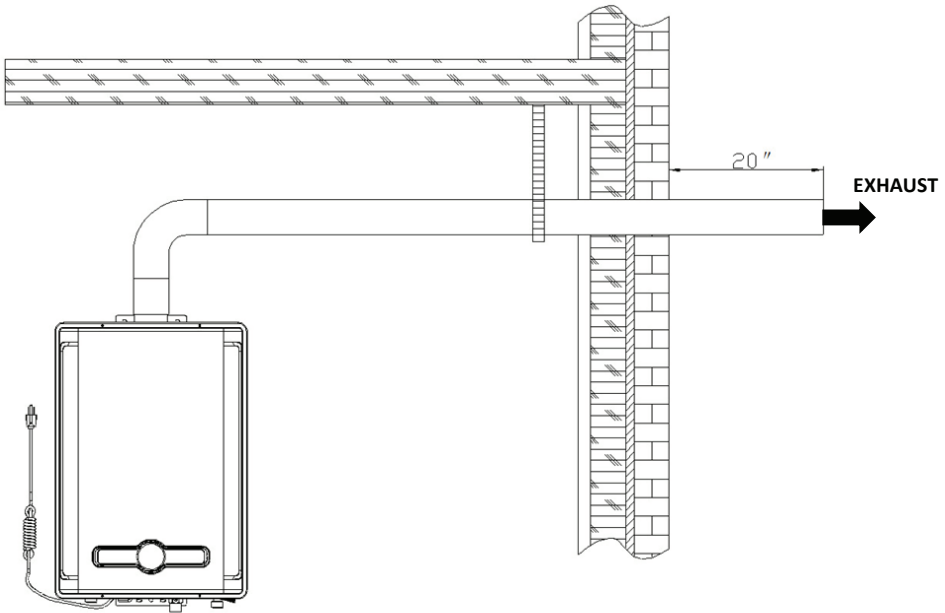
1. Determine the number of elbows of 90 degrees that will be used in the evacuation system (two elbows of 45 degrees being considered as a single elbow of 90 degrees)
2. Refer to the table below to determine the maximum length in function of the number of elbows.

Air intake pipe and exhaust pipe length: One elbow with a minimum length of 5ft, and a maximum length of 35ft.

Air intake pipe and exhaust pipe diameter: 4 inch

Number of elbows of 90°						
0	1	2	3	4	5	6
41ft(12,5m)	35ft(10,7m)	29ft(8,8m)	23ft(7,0m)	17ft(5,2m)	11ft(3,4m)	5ft(1,5m)





## HORIZONTAL TERMINATIONS:



## ACCEPTABLE VENT PRODUCTS:

Manufacturer	Listed and tested vent products	Telephone	Fax	Contact
Z-Flex	2SVSRCF04	800-654-5600	888-889-3539	<a href="mailto:sales@z-flex.com">sales@z-flex.com</a> <a href="http://www.novaflex.com">www.novaflex.com</a>

## APPROVED VENT PRODUCTS FOR DIRECT VENT:

Manufacturer	Part number	Part description	diagram
Z-Flex	2SVEPWC(F)(03-05)	3in. 4in. twin pipe	
Z-Flex	Z-Vent	Single wall 45° Elbow	
Z-Flex	Z-Vent	Single wall 90° Elbow	
Z-Flex	2SVSTS	3in. 4in. pipe termination	

The thickness of the wall where the vent system is installed shall not be less than 10in.

## 3.7 START UP AND TESTING

### WARNING

WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

### DANGER

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

### WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

This appliance does not have a pilot. A built-in ignition device will automatically light the burner. Do not try to light the burner by hand.

- Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

### INITIAL START UP

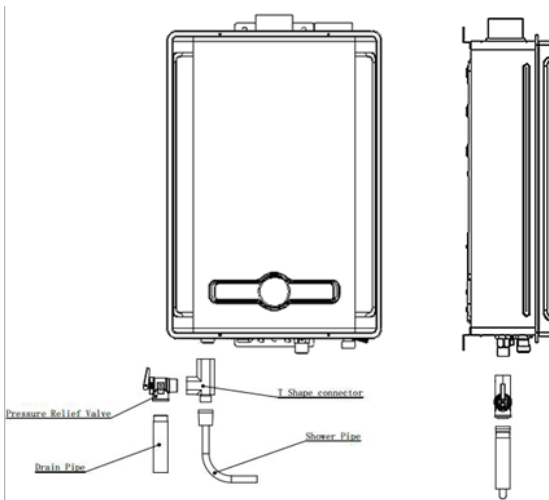
1. STOP! Read the safety information from the previous page.
2. Ensure unit is unplugged and all electric power to the appliance is off.
3. Locate the manual gas valve to the heater. Open the manual gas valve for 15-30 seconds.
4. Turn the manual valve clockwise to the full OFF position.
5. Carefully check for any sign or smell of gas. If gas is detected, wait five (5) minutes for it to clear. STOP and go no further until gas leak point is detected.
6. If no gas is detected, open the manual gas valve for five (5) minutes and again check area for any signs of gas. At any sign of gas, STOP and go no further. Follow the safety precautions from the previous page.
7. If no gas is detected, proceed.
8. Open the water supply valve to the unit. Inspect for any leaks
9. Visually inspect air intake inlet and exhaust piping to ensure they are not obstructed.
10. Plug in the unit.
11. Press the "ON" button to turn on the unit.

12. Adjust the temperature set point per “Temperature Control” Section of this manual.
13. This appliance is equipped with an ignition device that automatically lights the burner. Do not try to light the burner by hand.
14. Open a hot water tap to a flow above the minimum flow point (0.66 gpm/ 2.5 l/min).
15. The burner control system will fire the igniter, the burner will light, and hot water will be produced.
16. If the heater will not operate, follow the shut down instructions. Wait 5 minutes and attempt to repeat this start up procedure.
17. If system does not operate, begin troubleshooting per “Trouble Shooting” section of this manual. Contact Marey.

## RELIEF VALVE INSTALL

For safe operation of the water heater, be sure that:

- The pressure rating of the relief valve must not exceed 116 psi, the maximum working pressure of the water heater as marked on the rating plate.
- The BTUH rating of the relief valve must equal or exceed the BTUH input of the water heater as marked on its rating plate.
- No valve of any type should be installed between the relief valve and the water heater.
- The discharge line must be NO SMALLER than the outlet of the valve and must pitch downward to allow complete drainage (by gravity) of the relief valve and discharge line.
- The end of the discharge line should not be threaded or concealed. No valve of any type, restriction or reducer coupling should be installed in discharge line





# 4. REFERENCE

## 4.1 WIRING DIAGRAMS

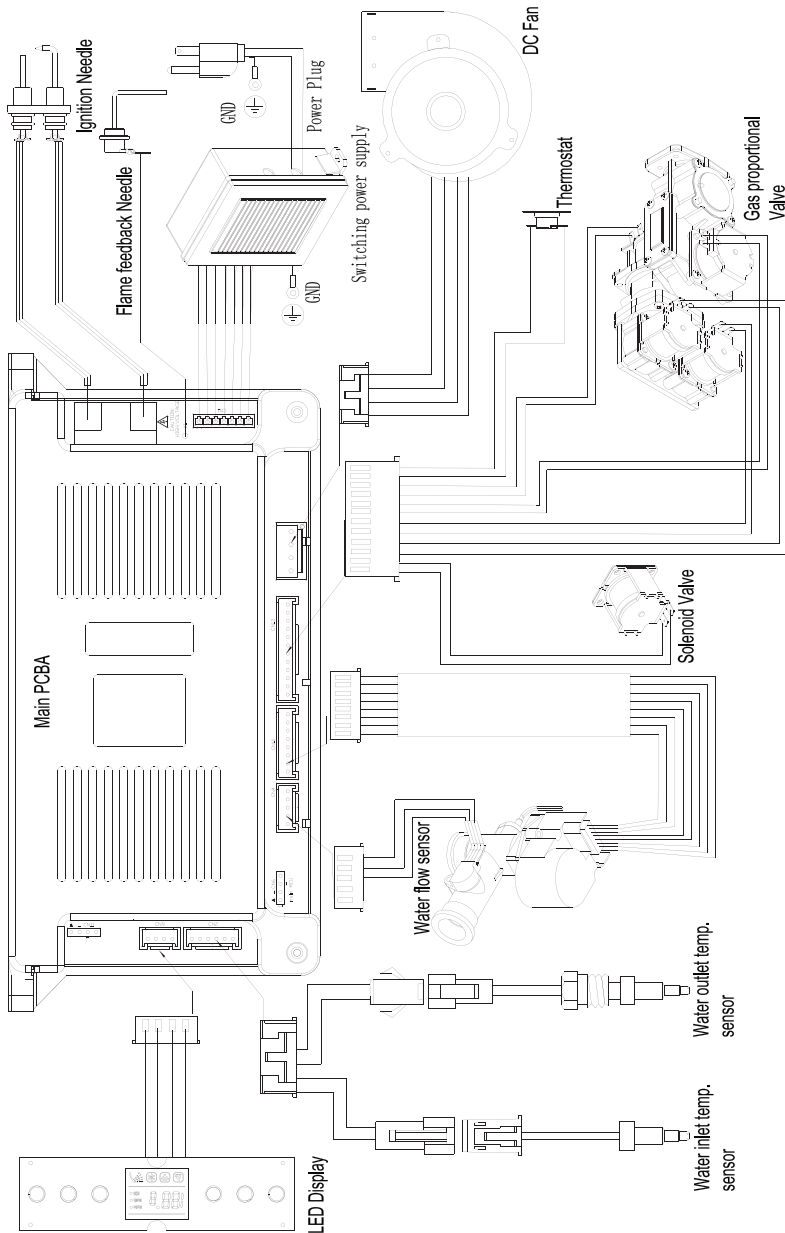


Figure 1. - Wiring diagram

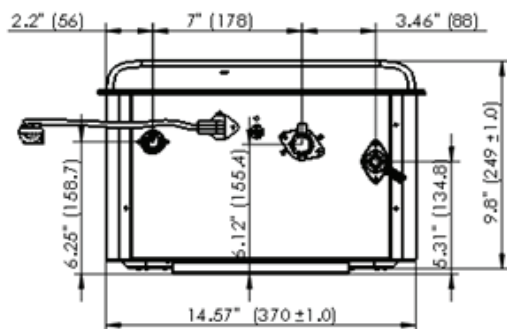
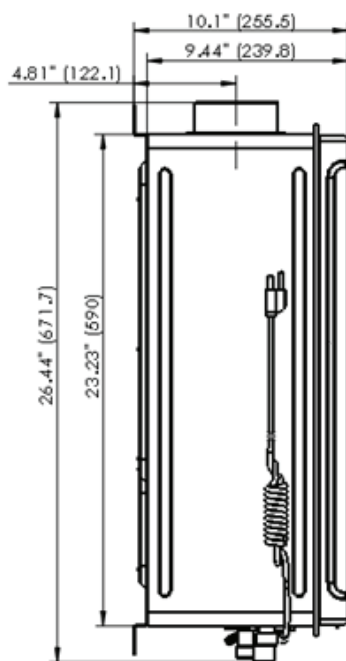
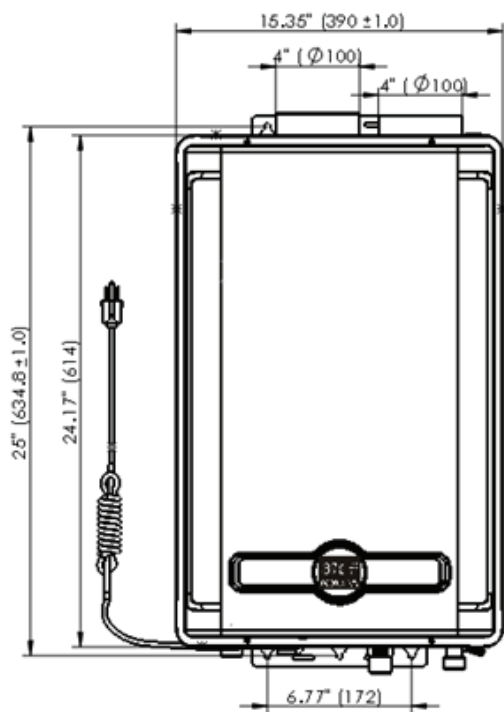
## 4.2 SYSTEM SPECIFICATION

Model No		GA30LP / GA30NG
Type of Appliance		Gas-fired instantaneous tankless water heaters
Operation		mounted in Kitchen, bathroom, etc.
Flue System		Forced Draught Flue
Available default Temperatures		Factory setting 107°F
Temperature Range		Within 35°C ~ 60°C ( 95°F ~ 140 °F )
Dimensions (mm)	Width	390
	Height	615
	Depth	240
Net Weight (kg)		22
Connections	Gas	NPT 3/4.
	Cold Water Supply	NPT 3/4.
	Hot Water Supply	NPT 3/4.
Ignition System		PULSE IGNITION
Hot Water Delivery Capacity Max.		45°F RISE-30L/MIN
Noise level		58 dB
DOE.		0.81
Minimum Operating Water Flow		0.5 GPM
Minimum Operating Pressure		1.5 PSI
Max. water pressure		150 PSI
Power Supply		120 Vac/60Hz/1A, one phase
Electrical Consumption( Normal)		52 w

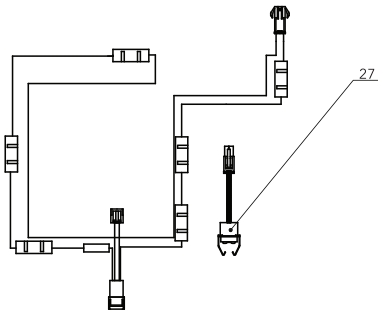
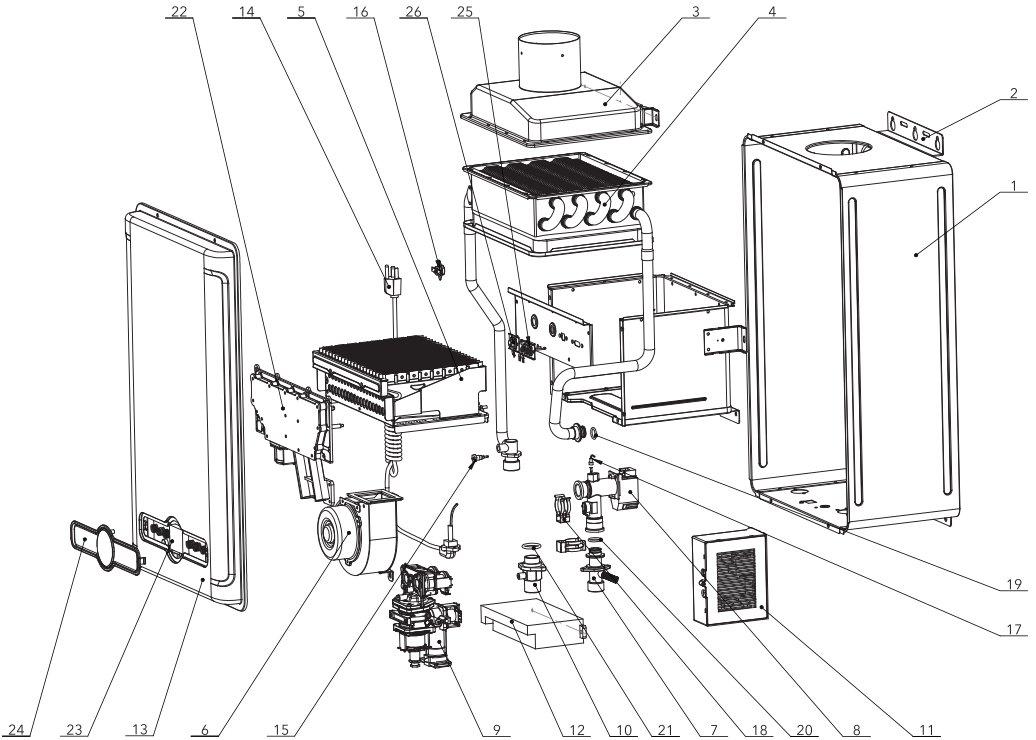
MODELS	NATURAL GAS	LIQUID PROPANE GAS
Rated Gas Pressure	1.93"wc (480Pa)	4.25"wc (1060Pa)
Max. Gas Consumption	199,000 BTU/hr	199,000 BTU/hr
Min. Gas Consumption	27,000 BTU/hr	27,000 BTU/hr



## 4.3 DIMENSIONS



## 4.4 NAMES OF MAJOR PARTS AND COMPONENTS



<b>N°</b>	<b>CODE</b>	<b>PARTS AND COMPONENTS</b>	<b>QTY.</b>
1	Q60.LU.2-0	Back panel	1
2	G60.LE.2-6	Back panel	2
3	ST10.60-0(G60-LE)	Smoke hood	1
4	ST05.102(G60-LE)	Heat exchanger	1
5	ST01.143-0(G60-LE)	Burner	1
6	ST14-56(Q52-LE)	Fan	1
7	ST18.3-0(Q52-LE)	Water inlet connector	1
8	ST03.10-0(G60-LE)	Water proportional valve assembly	1
9	ST04.31-0(Q52-LE)	Gas control assembly	1
10	ST18.4-1(Q52-LE)	Gas inlet connector	1
11	ST15.155-0(Q52-LE)	Power supply	1
12	ST15.154B-0(G60-LE)	Ignition controller	1
13	G60.LU.1-0	Shell	1
14	ST08.27(G32-HG16HWA)	Power cord-CSA	1
15	D20.DG-5	Outlet water temp. sensor	1
16	ST06-20	Thermostat 85	1
17	Q24.12H5-5	Temperature probe	1
18	G52.LU-1	Water proportional valve circlip	2
19	ST05.102-12	O ring 14.6x2.35	1
20		O ring 17x2.65	1
21		O ring 23.5x3.65	1
22	ST01.143-1(G60-LE)	Burner assembly*	1
23	ST17-78(G60-LE)	Temperature display	1
24	G60.LE1-2	Control panel	1
25	ST12-10B(G60-LE)	Ignition pin	1
26	ST13-11(Q24-12H3)	Flame sensor	1
27	G60.LE.4-0	Antifreezer 120W	1

## 4.5 SPARE PARTS

The following spare parts are available for purchase and maybe replaced by a licensed professional. Please contact Marey.

N°	CODE	PARTS AND COMPONENTS
1	Q60.LU.2-0	Back panel
2	G60.LE.2-6	Back panel
3	ST10.60-0(G60-LE)	Smoke hood
4	ST05.102(G60-LE)	Heat exchanger
5	ST01.143-0(G60-LE)	Burner
6	ST14-56(Q52-LE)	Fan
7	ST18.3-0(Q52-LE)	Water inlet connector
8	ST03.10-0(G60-LE)	Water proportional valve assembly
9	ST04.31-0(Q52-LE)	Gas control assembly
10	ST18.4-1(Q52-LE)	Gas inlet connector
11	ST15.155-0(Q52-LE)	Power supply
12	ST15.154B-0(G60-LE)	Ignition controller
13	G60.LU.1-0	Shell
14	ST08.27(G32-HG16HWA)	Power cord-CSA
15	D20.DG-5	Outlet water temp. sensor
16	ST06-20	Thermostat 85
17	Q24.12H5-5	Temperature probe
18	G52.LU-1	Water proportional valve circlip
19	ST05.102-12	O ring 14.6x2.35
20		O ring 17x2.65
21		O ring 23.5x3.65
22	ST01.143-1(G60-LE)	Burner assembly*
23	ST17-78(G60-LE)	Temperature display
24	G60.LE1-2	Control panel
25	ST12-10B(G60-LE)	Ignition pin
26	ST13-11(Q24-12H3)	Flame sensor
27	G60.LE.4-0	Antifreezer 120W

## 4.6 LIMITED WARRANTY

**YOU MUST** Register unit at: [www.marey.com](http://www.marey.com)

Marey Heater Corp. warrants only to the original consumer purchaser (hereinafter "Owner") of the water heater. Warranty for this product is not transferable. The warranty is restricted to the water heater used in the United States of America and Canada. This warranty is reduced to one year if the water heater is used in a commercial, or industrial application, or if the water heater is used to supply more than one dwelling unit.

The warranty **ONLY APPLIES** when the unit is installed, operated, and maintained in accordance with the printed instructions accompanying the water heater. The installation of the water heater should ensure that a water heater's pressure relief valve must be piped to the nearest drain to avoid damage in the event the valve is actuated. Make sure to read this manual thoroughly and review the installation drawings.

In the event the heat exchanger and components are, at Marey's determination, found to be defective in material or workmanship within the warranty period listed, Marey will furnish the Owner with replacement defective part(s) according to the following:

If the situation occurs within the first 365 days from date of purchase, parts and shipping are at no cost to the unit owner.

If the situation occurs up to five years from the date of purchase, parts are at no cost to owner, but shipping cost is the responsibility of the owner.

If Marey cannot replace said part, Marey will furnish a factory refurbished water heater of Marey's then prevailing comparable model of comparable capacity. In the event this were to be necessary, shipping costs are the responsibility of the Owner

Labor is NOT covered under any warranty claim.

**FREEZE DAMAGE IS NOT COVERED BY WARRANTY AT ANY TIME**

**THE LIMITED WARRANTY STATED HEREIN IS IN LIEU OF ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED (WHETHER WRITTEN OR ORAL), INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

**MANUFACTURER SHALL NOT BE LIABLE FOR ANY 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.**

Manufacturer shall not be liable for any water damage arising, directly or indirectly, from any defect in the water heater or component part(s) or from its use.

Manufacturer shall not be liable under this warranty and this warranty shall be void if ANY the following events occur: a. The water heater is not installed by a licensed plumber, licensed gas installer, or licensed contractor, or b. The water heater or any of its component parts have been subjected to misuse, misapplication, improper sizing, alteration, neglect or accident, or c. The water heater has not been installed in accordance with the applicable local plumbing and/or building code(s) and/or regulations or in their absence, with the latest issue of the National Fuel Gas Code Z223.1, and/or National Electric Code; or d. The water heater is not installed, operated, and maintained in accordance with the printed Manufacturer's instructions, or e. The water heater or any part has been under water; f. The water heater is exposed to corrosive ambient conditions, or g. The water heater replacement is requested for noise, odor, discoloration and/or rust, or h. The water heater is not operated within the factory set temperature limits, or i. The water heater is removed from its original installation location, or j. The water heater or any of its component parts fail because of fire, floods, lightning, freezing, electrical surges or any other act of God; or k. The water heater is installed in a closed system without adequate provision for thermal expansion, or l. The water heater is installed in an application that causes the water heater to activate more than 300 times per day; or m. Freeze damage to the water heater or part(s); or n. Condensate damage due to improperly installed or lack of a condensate trap or drain; or o. Damages to the water heater or any part due to improper installation: - Gas: incorrect gas pipe sizing, incorrect gas meter sizing, incorrect gas type, and/or gas pressures; or - Water: incorrect water pipe sizing, water pressures that fall outside the specified range, and/or lack of proper methods of ventilation; or - Electric: supply power voltages that fall outside the product's specified range; p. Damages to the water heater or any part due to water quality: - Introduction of liquids other than potable water into the water heater; or - Introduction of pool water, spa water, or any chemically treated water into the water heater; or - Introduction of untreated or poorly treated well water into the water heater;

Except when specifically prohibited by the applicable state law, the Owner, and not the Manufacturer, shall be liable for and shall pay for all charges for labor or other expenses incurred in the removal, repair or replacement of the water heater or any component part(s) claimed to be defective or any expense incurred to remedy any defect in the product. Such charges may include, but are not limited to a. All freight, shipping, handling, and delivery costs of forwarding a replacement water heater or replacement part(s) to the Owner. b. All costs necessary or incidental in removing the defective water heater or component part(s) and installing a new water heater or component part(s). c. Any material required to complete, and/or permits required for, installation of a new water heater or replacement parts(s), and d. All costs necessary or incidental in returning the defective water heater or component part(s) to a location designated by the Manufacturer.

The terms of this Limited Warranty cannot be modified by any person, whether he/she claims to represent or act on behalf of the Manufacturer.

Please feel free to contact us if you have any questions about our products, warranty service, or if you need assistance installing a unit. We also strive for continuous improvement, so we welcome your comments, feedback and suggestions.



**U.S.A**

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**PUERTO RICO**

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