

CAMPLUX 20L

Residential Outdoor Tankless Gas Water Heater

USE & CARE MANUAL

S330-A Marathon Ct Charleston, SC 29418

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(844) 538-7475

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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliances.
- WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any appliances.
 - Do not touch any electrical 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.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.





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	RESIDENTIAL TANKLESS WATER HEATER			RESIDENTIAL TANKLESS WATER HEATER				
Model#	WA528	Maximum Input Rating (Btu per hour)	150,000	Model#	WA528		Maximum Input Rating (Btu per hour)	150,000
Voltage	120 Volts	Minimum Input Rating (Btu per hour)	24,000	Voltage	120 Volts		Minimum Input Rating (Btu per hour)	24,000
Frequency	60 Hz	Minimum Input Gas pressure	8" w.c (2Kpa)	Frequency	60 Hz		Minimum Input Gas pressure	4" w.c (1Kpa)
Amps	Less than 12 Amperes	Maximum Input Gas pressure	13" w.c (3.23Kpa)	Amps	Less than 12 An	nperes	Maximum Input Gas pressure	10.5" w.c (2.61Kpa)
Gas Type Liquid Propane	Liquid Propane Only	Manifold Pressure	4.40" w.c (1.10Kpa)	Gas Type	e Natural Gas Only	Only	Manifold Pressure	3.40" w.c (0.84Kpa)
das type	Liquid Propane Only	Maximum Working Pressure	150 PSI	ous type		S)	Maximum Working Pressure	150 PSI
Serial #				Serial #				
Recovery Rating				As used in this standard, the quantity of water obtained by multiplying the manufacturer's input rating in Btu per hour by the thermal efficiency and dividing the product by 825 Btu per gallon. This is based on a 100°F temperature rise, and a nominal specific heat for water of 8.25 Btu per gallon per degree F.				
Not recommended in excess of 2,000 ft. above sea level. Category III Water Heater			Not recommended in excess of 2,000 ft. above sea level. Category III Water Heater					
ANSI Z21.10.3 / CSA4.3-2017 SUITABLE FOR WATER (POTABLE) HEATING ONLY			ANSI Z21.	10.3 / CSA4.3-20	17	SUITABLE FOR WATER (POTABLE) HEA	TING ONLY	
FOR YOUR SAFETY This appliance must be installed in accordance with Do not store or use gasoline or other local codes or, in the absence of local codes, the flammable vapors and liquids in the National Fuel Gas Code, ANSI 2223.1/NFA 54 or the vicinity of this or any other appliance [CSA B149.1, Natural Gas and Propane Installation Code For customer service on this appliance contact:			Do not stor flammable	,	s in the ppliance		es, the PA 54 or the	
support@camplux.com (844)538-7475			support@camplux.com (844)538-7475					
The unit must be installed on a fire retardant area, and must be away from all combustible materials. Clearance should be 1.75 ft to the left and right side of combustible materials, and 6.75 ft to the front.			The unit must be installed on a fire retardant area, and must be away from all combustible materials. Clearance should be 1.75 ft to the left and right side of combustible materials, and 6.75 ft to the front.					
Open on three sides and an overhead clearance of 36"			Open on three sides and an overhead clearance of 36"					
The temperature and pressure relief valve provided by the manufacturer shall be installed at the time of installation of the heater in the location specified by the manufacturer. Local codes shall gover installation of relief devices. For safe operation of the water heater, the relief valve must not be removed or plugged.			The temperature and pressure relief valve provided by the manufacturer shall be installed at the time of installation of the heater in the location specified by the manufacturer. Local codes shall gover installation of relief devices. For safe operation of the water heater, the relief valve must not be removed or plugged.					
	OUTDOOR USE ONLY			OUTDOOR USE ONLY				



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You're All Set!

Thanks for purchasing your new Camplux 20L residential tankless water heater. This convenient, safe and high efficiency product will open the doors to enjoying endless hot water.

We highly suggest you take the time to read through all of the safety and installation procedures in this manual, before attempting to install your new residential water heater.

Always remember we're here for you via our online helpdesk located at www.camplux.com, live chat and toll free at (844)538-7475!

🚺 Read this manual

Inside you will find many helpful hints on how to use and maintain your water heater properly. A little preventive care on your part can save you time and money over the life of your water heater. You'll find many answers to common problems in the Troubleshooting Guide. If you review the chart of Troubleshooting Tips first you may not need to call for service.

🛕 Read the safety information

To Ensure your safety and the safety of others, we have included important safety warnings throughout thismanual.

All safety messages will follow the safety alert symbol and the words: "CAUTION", "DANGER" "WARNING" or "NOTICE".

These words mean:

A CAUTION - A potentially hazardous situation that may result in minor or moderate injury.

DANGER - An imminently hazardous situation that will result in death or serious injury.

A WARNING - A potentially hazardous situation that could result in death or serious injury and/or damage to property.

A NOTICE: Attention is called to observe a specified procedure or maintain a specific condition.

WARNING: This water heater may not be suitable for use in manufactured (mobile) homes! Please check local code restrictions pertaining to permanent/fixed installations in manufactured homes in your area.

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The purpose of this manual is twofold: one, to provide the installer with the basic directions and recommendations for the proper installation and adjustment of the water heater; and two, to the owner-operator, to explain the features, operation, safety precautions, maintenance and troubleshooting of the water heater. This manual also includes a parts list.

It is imperative that all persons who are expected to install, operate or adjust this water heater read the instructions carefully so they may understand how to perform these operations. If you don't understand these instructions or any terms within it, seek professional advice.

Any questions regarding the operation, maintenance, service or warranty of this water heater should be directed to the seller from whom it was purchased. If additional information is required, refer to the section on Customer Service.

▲ Do not destroy this manual. Please read carefully and keep in a safe place for future reference.

Recognize this symbol as an indication of Important Safety Information!
 California Proposition 65 Warning: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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

A For your safety!

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury, or death. Refer to this manual. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

DO NO store or use gasoline or other flammable vapors or liquids or other combustible materials in the vicinity of this or any other appliance. To do so may result in an explosion or fire.

<u> What to do if you smell gas</u>

- DO NOT try to light any appliances.
- DO NOT touch any electrical 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.
- **DO NOT** return to your home until authorized by the gas supplier or fire department.



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Important Safety Information Read All Instructions Before Using

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

🔔 DANGER

Properly install water heater

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

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🔔 WARNING

Gasoline, as well as other flammable materials and liquids (adhesives, solvents, paint thinners etc.), and the vapors they produce are extremely dangerous. DO NOT handle, use or store gasoline or other flammable or combustible materials anywhere near or in the vicinity of a water heater or any other appliance. Be sure to read and follow the labels on the water heater, as well as the warnings printed in this manual. Failure to do so can result in property damage, bodily injury or death.



Installation:

Do not Install water heater where flammable products will be stored or used unless the main burner flame Is at least 18" above the floor. This will reduce, but not eliminate, the risk of vapors being ignited by the main burner flame.

Read and follow water heater warnings and Instructions. If owners manual is missing, contact the retailer or manufacturer.



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Water temperature setting

Safety and energy conservation are factors to be considered when selecting the water temperature setting. Water temperatures above 125°F can cause severe burns or death from scalding. The thermostat is adjusted to its lowest temperature position when shipped from the factory. Be sure to read and follow the warnings outlined on the label pictured below.





Time/Temperature Relationship in Scalds			
Water Temperature	Time To Produce a Serious Bur		
120°F	More than 5 minutes		
125°F	1 1/2 to 2 minutes		
130°F	About 30 seconds		
135°F	About 10 seconds		
140°F	Less than 5 seconds		
145°F Less than 3 seconds			
150°F	About 1 1/2 seconds		
155°F About 1 second			
Table courtesy of Shriners Burn Institute			

The chart shown above may be used as a guide in determining the proper water temperature for your home.

DANGER: Households with small children, disabled, or elderly persons may require a 120°F or lower temperature setting to prevent contact with "HOT" water.

Maximum water temperature occurs while burner is on. To find water temperature being delivered, turn on a hot water faucet and place a thermometer in the water stream and read the thermometer.



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The temperature of the water at the outlet of the water heater can be regulated by setting the temperature on Remote Control . The remote control was set at 110°F before it was shipped from the factory.

The illustration to the bottom left illustrates the Remote Control and how to adjust the water temperature.

NOTICE: When this water heater is supplying general purpose hot water requirements for use by individuals, a thermostatically controlled mixing valve for reducing point of use water temperature is recommended to reduce the risk of scald injury. Contact a licensed plumber or the local plumbing authority for further information.

NOTICE: The factory recommended operating temperatures are between 90°F and 120°F.

🔔 DANGER

Natural gas and liquefied petroleum models

Both LP and natural gas have an odorant added to aid in detecting a gas leak. Some people may not physically be able to smell or recognize this odorant. If you are unsure or unfamiliar with the smell of LP or natural gas, ask the gas supplier.

Other conditions, such as "odorant fade", which causes the odorant to diminish in intensity, can also hide or camouflage a gas leak. Always check with commercial leak detector or soapy water.

- Gas detectors are recommended in LP and natural gas applications and their installation should be in accordance with the detector manufacturer's recommendations and/or local laws, rules, regulations or customs.
- Water heaters utilizing LP gas are different from natural gas models. A natural gas water heater will not function safely on LP gas and vice versa.
- No attempt should ever be made to convert the water heater from natural gas to LP gas. To avoid possible equipment damage, personal injury or fire, do not connect the water heater to a fuel type not in accordance with the unit data plate; propane for propane units and natural gas for natural gas units. These units are not certified for any other fuel type.
- LP water heaters should not be installed below grade (for example, in a basement) if such installation is prohibited by federal, state and/or local laws, rules, regulations or customs.



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- Propane or LP gas must be used with great caution. It is heavier than air and will collect first in lower areas making it hard to detect at nose level.
- Before attempting to light the water heater, make sure to look and smell for gas leaks. Use a soapy solution to check all gas fittings and connections. Bubbling at a connection indicates a leak that must be corrected. When smelling to detect a gas leak, be sure to sniff near the floor also.
- It is recommended that more than one method, such as soapy solution, gasdetectors, etc., be used to detect leaks in gas applications.

NOTICE: If a gas leak is present or suspected:

- DO NOT attempt to find the cause yourself.
- DO NOT try to light any appliance.
- DO NOT touch any electrical switch.
- DO NOT use any phone in your building.
- Leave the house immediately and make sure your family and pets leave also.
- Leave the doors open for ventilation and contact the gas supplier, a qualified service agency or the fire department.
- Stay away from the house(or building) until the service call has been made, the leak is corrected and a qualified agency has determined the area to be safe.

For your safety read before operating

<u> W</u>ARINING

For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, or to prevent property damage, personal injury, or loss of life.

🛕 For installations in the state of california

California Law requires that residential water heaters must be braced, anchored or strapped to resist falling or horizontal displacement due to earthquake motions. For residential water heaters up to 52 gallon capacity, a brochure with generic earthquake bracing instructions can be obtained from: Office of the State Architect, 400 P Street, Sacramento, CA 95814 or you may call 916-445-8100 or ask a water heater dealer.

However, applicable local codes shall govern installation. For residential water heaters of a capacity greater than 52 gallons or tankless style, consult the local building jurisdiction code for acceptable bracing procedures.

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Safety precautions

Have the installer show you the location of the gas shut-off valve and how to shut it off if necessary. Turn off the manual shut-off valve if the water heater has been subjected to overheating, fire, flood, physical damage or if the gas supply fails to shut off.

- Read this manual entirely before installing or operating the water heater.
- Use this water heater only for its intended purpose as described in this Use and Care Manual.
- Be sure your water heater is properly installed in accordance with local codes and the provided installation instructions.
- Part of your water heater unless it is specifically recommended in this manual. All other servicing should be referred to a qualified technician.

READ AND FOLLOW THIS SAFETY INFORMATION CAREFULLY.

Save these instructions

This water heater must be installed in accordance with these instructions, local codes, utility company requirements, and/or in the absence of local codes, use the latest edition of the American National Standard/National Fuel Gas Code. A copy can be purchased from either the American Gas Association, 400 North Capitol Street Northwest, Washington, DC 20001 as ANSI standard Z223.1 or National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02269 as NFPA 54. In Canada, the latest edition of the CSA B149.1 Natural Gas and Propane Installation, and the Canadian Electrical Code, CSA C22.1Part1, in the absence of local codes.





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Installing The Water Heater

This water heater is for OUTDOOR installation ONLY!

Make sure before installation that the gas type you will use is the same type on the data plate on the side of your water heater.

The water heater should be installed by professionals from your local gas company. Please, don't attempt installation by yourself. Improper installation may cause failure or dangerous conditions such as gas leaks or explosion.

This water heater is an outdoor model and must be mounted on a vertical wall. It must not be installed outdoors or in a confined space. The water heater should be installed close to the most frequently used outlet and its position chosen with safety and service in mind.

Make sure people (particularly children, disabled, and elderly) will not touch the hot water outlet or the flue terminal. The flue terminal and air inlet must be clear of obstruction and shrubbery.

If installed in a public corridor, please assure that the surrounding area is free of debris, obstruction and flammable materials.

The water heater must be installed on a fire retardant area, and must be away from all flammable materials. Clearance should be 1.75 ft to the left and right side of flammable materials, and 6.75 ft to the front.

The water heater should be installed in open area where strong currents are not prevalent.

This water heater is of high power and will consume a lot of oxygen when working, so the installation area must be well ventilated, and air in and out of the area has no blockage.

The outdoor water heater should not be installed in a corridor with rooms on the both sides or in the closed corridor.

Take measures to avoid direct wind, rain and snow. The installation area should be constructed of fire retardant materials. The power socket connecting the water heater should be properly grounded.

The water heater must be located so it is not subject to physical damage, for example, by moving vehicles, area flooding, etc.

The water heater must be installed vertically with the water, gas, and power connections on the underside, pointing toward the ground.

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Failure to properly install the water heater outdoors as outlined in this manual can result in unsafe operation.

Hot and cold water lines should be insulated to conserve water and energy.

DO NOT install water heater where subject to vibrations.

DO NOT install the water heater in Recreational Vehicles, Mobile Homes, Boats and other Watercraft.

DO NOT install the water heater near vents for heating or cooling. A minimum of 4 feet should be maintained.

If the clearances stated on the Instruction/Warning Label, located on the front panel of the heater differ, install the water heater according to the clearances stated on the label.

WARNING: Combustible construction refers to adjacent walls and ceilings and should not be confused with combustible or flammable products and materials. Combustible and/or flammable products and materials should never be stored in the vicinity of this or any gas appliances.

Proper operation of the water heater requires air for combustion and ventilation. Provisions for combustion and ventilation air must comply with referenced codes and standards.

Combustion and ventilation air

This water heater is for OUTDOOR installation ONLY. It must NOT be installed indoors or in a confined space.

MOTICE: The water heater should not be installed near an air supply containing halogenated hydrocarbons.



Corrosive atmospheres

The air in beauty shops, dry cleaning establishments, photo processing labs, and storage areas for liquid and powdered bleaches or swimming pool chemicals often contain such halogenated hydrocarbons.

An air supply containing halogenated hydrocarbons may be safe to breathe, but when it passes through a gas flame corrosive elements are released that will shorten the life of any gas burning appliance.

Propellants from common spray cans or gas leaks from A/C and refrigeration equipment are highly corrosive after passing through a flame.

The water heater warranty is voided when failure of the heater is due to operation in a corrosive atmosphere.

Inspect shipment

Inspect the water heater for possible damage. Check the markings on the rating plate of the water heater to be certain the type of gas supplied corresponds to the water heater requirements. Verify all included parts are present (see below). Please note that orders shipping to a Canadian address will include the pressure relief valve.



Remote Control



Exposive Screw x 2 pieces



Gas Appliance Shut Off

Wood Screw x 4 pieces



Pressure Relief Valve (Canada Shipments Only)





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Installing The WA528 Outdoor Tankless Water Heater

Typical Installation (Some Items May Not Apply)



NOTICE: The National Fuel Gas Code (NFGC) mandates a manual gas shut-off valve: See (NFGC) for complete instructions. Local codes or plumbing authority requirements may vary from the instructions or diagrams provided and take precedent over these instructions.



Water supply connections



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. Install a shutoff valve near the inlet of the water heater for service and draining purposes.

Before connecting the water supply pipe to the water heater, open the shutoff valve and clean out sand, debris, air, caulking material, etc. inside the pipe. Connect to the water inlet, then check water flow.

Close the shutoff valve and clean the water filter.

Be sure to connect the water inlet and the hot water outlet as shown on the water heater. If reversed, the water heater will not function.

Installation of unions or flexible copper connections are recommended on the HOT and COLD water lines, so that the water heater may disconnect easily for servicing if necessary.

Install a Check Valve between the water heater and the water shutoff valve. (See illustration to the top).

In regards to the HOT WATER OUTLET:

Connections between the water heater and point(s) of use should be as short and direct as possible.

DO NOT use lead or non-approved plastic pipe.

NOTICE: The flow rate of hot water may vary when more than two faucets (appliances, fixtures, etc.) are being used simultaneously.

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NOTICE: The pipes MUST be completely drainable. If the hot water faucets are located at a point higher than the water heater, place a drain valve at the lowest point (see illustration to the top).

Gas supply

A WARNING: Do not attempt to convert this water heater for use with a different type of gas other than the type shown on the rating plate. Such conversion could result in hazardous operating conditions. Please have a professional connect the gas pipe.

A Manual Gas Appliance Shutoff Valv must be installed at the gas connection of the water heater at the time of installation (see diagram to the right). The branch gas supply line to the water heater should be clean black steel pipe or other approved gas piping material.

A ground joint union or ANSI design certified semi-rigid or flexible gas appliance connector should be installed in the gas line close to the water heater. The National Fuel Gas Code (NFGC) mandates a manual gas shut-off valve See (NFGC) for complete instructions.

If flexible connectors are used, the maximum length shall not exceed 36".

If lever type gas shut offs are used, they shall be T-Handle type.



Compound used on the threaded joints of the gas piping must be of the type resistant to the action of LP gas. Use compound sparingly on male threads only.



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A sediment trap should be installed at the bottom of the gas line.

Do not use excessive force (over 31.5 ft lbs.) in tightening the pipe, particularly if pipe-tape compound is used, as the unit may be damaged.

The inlet gas pressure to the water heater must not exceed 10.5 " w.c. for natural or 14" w.c. for LP gas. For purposes of input adjustment, the minimum inlet gas pressure (with main burner on) is shown on the water heater rating plate. If high or low gas pressures are present, contact your gas supplier for correction.

Relief valve

A new pressure relief valve, complying with the Standard for relief Valves and Automatic Gas Shut-Off Devices for Hot Water Supply Systems, ANSI Z21.22, must be installed at the hot water outlet connection of the water heater at the time of installation. Local codes shall govern the installation of relief valves.

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

- The pressure rating of the relief valve must not exceed 150 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.
- Discharge from the relief valve should be piped to a suitable drain to eliminate potential water damage. Piping used should be of a type approved for the distribution of hot water.
- Hot and cold water lines should be insulated up to 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 and should be protected from freezing. No valve of any type, restriction or reducer coupling should be installed in discharge line.

NOTICE: Local codes govern the installation of relief valves. If local codes require that a temperature and pressure relief valve should be installed the manufacturer recommends a type 40XL Watts T&P relief valve or an equivalent model be used.

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NOTICE: Manual operation of relief valves should be performed at least once a the relief valve and check the manual operation of the relief valve. You should take precaution to avoid contact with the hot water coming out of the relief valve and to prevent water damage.

NOTICE: If the relief valve on the system discharges periodically, this may be due to thermal expansion in a closed water supply system. Contact the water supplier or local plumbing inspector on how to correct this situation. Do not plug the relief valve.



NOTICE: The above illustrates a pressure only relief valve. If local codes require a combination of temperature and pressure relief, a valve can be installed, but an extension piece may be needed.

Pressure testing the gas supply system

WARNING: Install a gas pressure regulator, in the gas supply line, which does not exceed the maximum supply pressure.

DO NOT use an industrial type gas regulator.

Failure to isolate heater during pressure test can damage internal components voiding warranty. The water heater and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at testy pressures in excess of 1/2 psi. The water heater must be isolated from the gas piping system by closing the manual gas shut-off valve during any pressure testing of the gas supply piping at test pressures equal to or less than 1/2 psi (14'w.c.).



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Leak testing

A WARNING: Never use an open flame to test for gas leaks, as property damage, personal injury, or death could result.

The water heater and its gas connections must be leak tested at normal operating pressures before it is placed in operation.

- Turn on the gas shut-off valve(s) to the water heater.
- Use a commercial leak detector or soapy water solution to test for leaks at all connections and fittings. Bubbles indicate a gas leak that must be corrected.

The factory connections should also be leak tested after the water heater is placed in operation.

High altitude

The Gas Water Heaters have been tested for use at elevations up to 2,000 feet. Installation and use of the Gas Tankless Water Heaters above 2,000 feet may effect overall product efficiency and performance. Installation and use of the Gas Tankless Water Heaters above 5,000 feet is not recommended.

Installing the water heater

Flue terminal location

The location of the vent terminal depends on the following minimum clearances and considerations (see illustration):



Additional Considerations

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▲ WARNING: Moisture in the flue gas will condense as it leaves the vent terminal. In cold weather this condensate can freeze on the exterior wall, under the eaves and on surrounding objects. Some discoloration to the exterior of the building is to be expected. However, improper location or installation can result in severe damage to the structure or exterior finish of the building. Code requirements are subject to change and may vary by location.

- Twelve (12) inches above grade level and above normal snow levels.
- Four (4) feet below, or four (4) feet horizontally from any door, window, soffit, under eave vent or gravity air inlet to the building or other appliances, or from gas or electric meters. Do not locate vent above walkways, doors, windows, air inlets, gas or electric meters or other equipment.
- Ten (10) feet from any forced air inlet to the building. Any fresh or make-up air inlet such as for a dryer or furnace area is considered to be a forced air inlet.
- Eighteen (18) inches from an inside corner formed by two exterior walls.
- DO NOT install vent terminal under any patio/deck or too close to shrubbery, as flue gases or condensate vapor may become a nuisance or hazard and may cause property damage. Condensate vapor could cause damage and be detrimental to the operation of regulators, relief valves, or other equipment.
- To help prevent moisture from freezing on walls and under eaves, do not locate vent terminal on the side of a building with prevailing winter winds. The water heater must be located as close as practicable to a chimney or gas vent.
- Caulk all cracks, seams and joints within six (6) feet of vent terminal.
- All painted surfaces should be primed to lessen the chance of physical damage. Painted surfaces will require maintenance.
- Use of cellular core PVC (ASTM F891), cellular core CPVC, or Radel (polyphenylsulfone) in non-metallic venting systems is prohibited. Covering non-metallic vent pipe and fittings with thermal insulation is prohibited.
- DO NOT connect to a chimney flue serving a separate appliance designed to burn solid fuel.

▲ WARNING: Field wiring connections and electrical grounding must comply with local codes, or in the absence of local codes, with the latest edition of the National Electrical Code, ANSI/NFPA 70, or in Canada, Canadian Electrical Code, CSA C22.1 Part 1.



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Remote Control Installation

The following are considerations for determining the location of the remote control(s):

- DO NOT install any remote control outdoors.
- Place remote control(s) out of children's reach.
- The remote control(s) can be installed in convenient locations such as the kitchen, laundry room, or utility room.
- The included remote control can be placed in a convenient location in a bathroom, however, AVOID areas where water may come into contact with the control(s).
- Avoid areas where the remote control(s) may be exposed to heat, e.g. stove ranges or heaters.
- Avoid areas where the remote control(s) may be subjected to oil and/or steam from cooking.
- Avoid areas where chemical agents (such as thinner, benzine and alkaline) are used.
- Avoid areas of direct sunlight.
- The MAXIMUM distance between the water heater and the remote control(s) installation location is limited to 50 feet.
- No other manufacturer's controls are suitable for use with this water heater.
- DO NOT attempt to disassemble the remote control.

Remote Control-Connection, Installation and Set

(For Panel Control/Remote Control and Remote Control units)

Panel Control/Remote Control and Remote Control units will work with either one or two remote controls. If two remotes are desired, a wire connector will need to be provided. To connect the remote control:

1. For one control: Plug the aviation joint into the socket directly on the water heater. (see illustration below)

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2. For two controls: First, cut off the aviation joints on the two controllers, plug one into the socket on the water heater (length is dependent on your requirements), and throw away the other. Then connect the wires of the aviation joint to the inlet wire of the connector, and connect the two remote control to the outlet wires of connector.

Installation of remote control

1. Remove the front cover of the Remote Control. (See illustration below)



2. At installation site, mark and screw two holes with 0.24" with 1.2" depth. Insert 2 rubber screws into the holes. Place the remote control against the wall, align the holes of control with the holes in the wall, and fasten them with wood thread screws. (See illustration below)





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3. Replace the front cover on the remote control.

Electrical Connections

Power cord:

- The electric power supply requirement for this water heater is 120 VAC/60HZ, 2 Amps.
- The water heater comes with a three (3= pin power supply cord. Use only a
 power outlet with a ground terminal.
- The installation of an electric leakage breaker is recommended. (GFCI)
- Keep any excess of the power supply cord on the outside of the water heater instructions for "Hardwiring the Electrical Connections".

A WARNING: Shock hazard line voltage is present. Before servicing the water heater, turn off the electrical power to the water heater at the main disconnect or circuit breaker. Failure to do so could result in severe personal injury or death.

▲ CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify correct operation after servicing.

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Electric Wiring Diagram



Insulation Blankets

WARNING: If local codes require external application of insulation blanket kits the manufacturer's instructions included with the kit must be carefully followed.

Insulation blankets, available to the general public, for external use on gas water heaters are not necessary. The purpose of an insulation blanket is to reduce the standby heat loss encountered with storage tank heaters. This water heater does not store water making an insulation blanket unnecessary.

The manufacturer's warranty does not cover any damage or defect caused by installation, attachment or use of any type of energy saving or other unapproved devices (other than those authorized by the manufacturer) into, onto or in conjunction with the water heater.



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The use of unauthorized energy saving devices may shorten the life of the water heater and may endanger life and property.

The manufacturer disclaims any responsibility for such loss or injury resulting from the use of such unauthorized devices.

Pipe Installation

Inlet pipe and outlet pipe installation

Use pressure resistant pipe to connect the inlet and outlet water pipes of the water heater and the local water pipe (Make sure to place the rubber ring).Before connecting the inlet water pipe, flush the inside of the pipe.



Hot and cold pipe insulation installation

For increased energy efficiency, use pipe insulation. Please install the insulation, according to the illustrations above, making sure to insulate all the way to the top. Do not cover any drain or pressure valve(s).







NOTICE: The hot and cold pipes should be insulated as shown help to provide additional freeze protection.

During Installation Of This Water Heater

Do's

- **DO** check inlet gas pressure to ensure that it is within the range specified on the rating plate.
- **DO** provide adequate air for combustion and ventilation as discussed in the Use & Care Manual and the National Gas Code (CAN/CGA B 149 in Canada).
- **DO** maintain proper clearances to combustibles as specified by applicable code.
- **DO** ensure that the flue terminal location complies with the guidelines found in the Use & Care Manual and National Fuel Gas Code (CAN/CGA B 149 in Canada).

Dont's

- **DON'T** block or restrict Air Intake Opening located on the back side of the water heater.
- **DON'T** remove the front cover unless absolutely necessary. This should only be done after being examined by a qualified service technician.
- DON'T install this product where standing water may occur.



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Mounting The WA528 Outdoor Tankless Water Heater

Make sure the location of the water heater allows for easy access and operation. The water heater should be located in an area where leakage of the tank or connections will not result in damage to the area adjacent to the water heater 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.

In case of dry wall or concrete wall use dry wall anchors or lag bolts.

The water heater requires 120VAC/ 60Hz. Have a receptacle with ground terminal near the water heater. The length of the power supply cord is 5 feet.

Drill the holes as per the sizes in the figure to the left, put 2 expansion screws into the top holes, and 2 rubber screws into the bottom holes.

Hang up the water heater unit, tighten the expansion screws, and put 2 wood thread screws into the bottom holes.



When being installed directly on carpeting, the water heater shall be installed on a metal or wood panel extending beyond the full width and depth of the water heater by at least 3 in (76.2 mm) in any direction or, if the water heater is installed in an alcove or closet, the entire floor shall be covered by the panel. The panel must be strong enough to carry the weight of the heater when full of water.

CAUTION: Reinforcement of the wall is required in case the wall is not strong enough to hold the water heater.

Water supply connections

Plumbing should be carried out by a qualified plumber in accordance with local codes.

Use approved plumbing materials and tools only.

To conserve energy and to prevent freezing, insulate both cold and hot water supply lines. **DO NOT** cover the drain valves.

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To ensure proper operation of the water heater, the following water pressure guidelines should be followed:

- Operation of the water heater requires the minimum water pressure of 14 psi and a minimum water flow rate of 0.75 gpm.
- Additional water pressure is required for long pipe runs and outlet fitting(s) water pressure drops.
- To maintain proper performance, ensure sufficient water supply pressure. The Required Water Pressure = Min. Operating Water Pressure (14 psi) + Pipe Pressure Loss + Faucet and Shower Pressure Loss + Safety Margin (more than 5 psi).
- To supply hot water to upper floors, additional water pressure (0.44 psi/ft) must be ensured. The measurement should be calculated by the distance between the water inlet of the water heater (ground level) to the hot water faucet (upper floor level).
- Well water systems should be set at a range of 50-60 psi.
- When the water is supplied from a water supply tank, the height of the tank and the diameter of the pipes and their relation to water pressure, should be taken into consideration. Gravity **water pressure is not recommended.**

NOTICE: If the water flow resistance of a shower head is too high, the burner in the water heater will fail to ignite. Keep the shower head clean from debris that could cause additional pressure drop.

NOTICE: If using mixing valves on the outlet, choose one which prevents cold water pressure from overcoming hot water line pressure.

IMPORTANT: Do not apply heat to the HOT or COLD water connections. Any heat applied to the water supply fittings will permanently damage the internal components of the water heater.

A CAUTION: This water heater must only be used with the following water supply system conditions:

- With clean, potable water free of corrosive chemicals, sand, dirt, or other contaminates.
- With inlet water temperatures above 32°F, but not exceeding 120°F.
- Free of lime and scale deposits.
- DO NOT reverse the hot and cold water connections. The water heater will not operate.



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Installation check list

A. Water Heater Location

- Installed OUTDOORS.
- Close to area of mostly used outlet.
- Protected from freezing temperatures.
- Proper clearance from combustible surfaces observed.
- Sufficient fresh air supply for proper operation of water heater.
- Air supply free of corrosive elements and flammable vapors.
- Provisions made to protect area from water damage.
- Sufficient room to service heater.
- Combustible materials, such as clothing, cleaning materials, rags, etc. clear of the heater and vent piping.
- Water heater is properly attached to the wall.

B. Water Supply

- Water supply has sufficient pressure.
- Air purged from water heater and piping.
- Water connections tight and free of leaks.
- Materials used are as instructed in this manual.
- Water pipes are insulated.

C. Gas Supply

- Gas type matches rating plate.
- Gas supply pressure is sufficient for the water heater.
- Gas line equipped with shut-off valve, union and sediment trap.
- Approved pipe joint compound used.
- Commercial leak detector or soap and water solution used to check all connections and fittings for possible gas leak.
- Gas Company inspected installation (if required).

D. Relief Valve

- Pressure relief valve properly installed and discharge line run to open drain.
- Discharge line protected from freezing.

E. Electrical Wiring

- Voltage matches rating plate.
- Water heater is properly grounded.
- Wiring meets all local codes.
- GFCI protection where required.

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Outdoor location

- Installation distances may vary by local code. It is the installer's responsibility to verify installation requirements.
- Make sure before installation that the gas type you will use is the same type on the data plate.
- The water heater should be installed by professionals. Improper installation may cause failure or dangerous conditions such as gas leaking or explosion.
- Water Heater cannot be installed in an UN-VENTED bathroom, bedroom, basement, living room, closet, outdoor, stairway or an exit area. If installed in an exit area, it must be at least 16.5 ft. or more away from the exit.
- Vent pipe should extend from the wall at least 2". The terminal must be at least 1.64 ft. away from obstruction, and must be well vented.
- Vent pipe should slope 3° downward, to avoid condensing water and protect from rain entering.
- Vent pipe should avoid direct, strong wind because the downdraft will cause malfunction.
- The water heater should be installed far from any blockage, and with plenty of space for installation and maintenance. Adequate clearances for servicing must be provided.
- The water heater should not be installed in the same room with a gas stove.
- When determining the floor clearance, a clearance of 6 inches must be maintained between the vent pipe and combustible material. A side wall clearance of 6 inches and a top clearance of 12 inches must be maintained.
- The vent pipe can be up to 32 ft. in length with one elbow.
- The vent pipe should be installed with a flame retardant wall thimble. Owner must refer to vent manufacturer's instructions and specifications.
- The power socket connecting the water heater should be grounded properly with a GFCI circuit protector.
- The water heater should not be located in an area where leakage of the heat exchanger or connections will result in damage to the area adjacent to it or to lower floors of the structure. When such areas cannot be avoided it is recommended that a suitable catch pan, adequately drained, must be installed under the water heater. The pan must not restrict combustion airflow.
- The water heater should be installed as close as practical to the vent termination to minimize vent length and the number of elbows required for venting.
- A gas fired water heater or any other appliance should not be installed in a space where liquids which give off flammable vapors are to be used or stored. Such liquids include gasoline, LP gas (butane or propane), paint or adhesives and their thinners, solvents or removers.



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Lighting the water heater

Before operating this water heater, be sure to read and follow the instructions on the label pictured below and all other labels on the water heater, as well as the warnings printed in this manual. Failure to do so can result in unsafe operation of the water heater resulting in property damage, personal injury, or death. Should you have any problems reading or following the instructions in this manual. STOP, and get help from a qualified person.

FOR YOUR SAFETY BEFORE USING THE WATER HEATER

A 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 water heater 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 water heater area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor. Test all connections with a commercial leak detector or soapy water.

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 or fire department. • DO **NOT** return to your home until authorized by the gas supplier or fire department.

- C. 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, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. DO NOT use this water heater if any part has been under water. Immediately call a qualified service technician to inspect the water heater and to replace any part of the control system and any gas control which has been under water.

OPERATING INSTRUCTIONS

- 1. STOP! Read the safety information above on this label.
- 2. Turn off all electric power to the water heater.
- 3. Set the thermostat to lowest setting.
- 4. DO NOT attempt to light the burner by hand.
- 5. Turn the Gas Shut-off Valve located on the outside of the unit clockwise to the "OFF" position.
- 6. Wait five (5) minutes to clear out any gas. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
- 7. Turn the Gas Shutoff Valve located on outside of the unit counterclockwise to the "ON" position.
- 8. Turn on all electric power to the water heater.
- 9. Set thermostat to desired setting.
- 10. If the water heater will not operate, follow the instructions "To Turn Off Gas To water heater" and call your service technician or gas supplier.

TO TURN OFF GAS TO WATER HEATER

- 1. Turn off all electric power to the water heater if service is to be performed.
- 2. Turn the Gas Shut-off Valve located on the outside of the unit clockwise to the "OFF" position.

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Operating The Water Heater

Turning on the water heater

- 1. Make sure the gas type you will use is same as the type on the data plate.
- Turn on the main gas valve, plug in the power cord (be sure the socket is well grounded), and press the "ON/OFF" button on the control panel. Set temperature to 120° F.
- 3. Turn on the faucet, and the fan will begin working. You will hear the ignition sound after a few seconds. The burner will ignite, and hot water will come out. If the burner is not ignited successfully, the ignition sound will last a few seconds. If the burner still fails to ignite, turn off the faucet and wait for 10-20 seconds, and repeat the above procedures.

For first use and/or if the water heater has not been used for a considerable period of time, the repeat of the above procedures may be required, due to accumulated air inside the gas pipe.

Safety precautions

If there is any difficulty in understanding or following the Operating Instructions or the Maintenance section, it is recommended that a qualified person or serviceman perform the work.

- DO turn off manual gas shut-off valve if water heater has been subjected to over heating, fire, flood, physical damage or if the gas supply fails to shut off.
- DO NOT turn on water heater unless water and gas supplies are fully opened.
- DO NOT turn on water heater if cold water supply shut-off valve is closed.
- DO NOT allow combustible materials such as newspaper, rags or mops to accumulate near water heater.
- DO NOT store or use gasoline or other flammable vapors and liquids, such as adhesives or paint thinner, in vicinity of this or any other appliance. If such flammables must be used, open doors and windows for ventilation, and all gas burning appliances in the vicinity should be shut off including their pilot lights, to avoid vapors lighting.

NOTICE: Flammable vapors can be drawn by air currents from surrounding areas to the water heater.



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Water Temperature Setting

A DANGER: There is a hot water scald potential if the temperature is set too high. Households with small children, disabled, or elderly persons may require a 120°F. or lower temperature setting to prevent contact with HOT water.

Water Temperature	Time To Produce a Serious Burn		
120°F	More than 5 minutes		
125°F	1 1/2 to 2 minutes		
130°F	About 30 seconds		
135°F	About 10 seconds		
140°F	Less than 5 seconds		
145°F	Less than 3 seconds		
150°F	About 1 1/2 seconds		
155°F	About 1 second		
Table courtesy of Shriners Burn Institute			

Output temperature of water is regulated by setting the temperature on the front of the remote control.

Safety factors should be considered when selecting the water temperature setting of the water heater's remote control. The remote control was set at 110°F before the water heater was shipped from the factory. This is the recommended starting point.

Water temperatures above 120°F can cause severe burns or death from scalding. The thermostat is adjusted to its lowest temperature position when shipped from the factory. Be sure to read and follow the warnings outlined in this manual and on the label located on the water heater. Mixing valves are available for reducing point of use water temperature by mixing hot and cold water in branch water lines. Procedures for adjusting the thermostat for energy efficient operation at the minimum water temperature setting consistent with the consumer's needs.

Contact a licensed plumber or the local plumbing authority for further information.



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Set temperature memory

- 1. This model can memorize and save the last set temperature on the remote control with "priority".
- 2. If no remote control has "priority", the set temperature of the unit will be the same as the set temperature of the remote control which starts the water heater.
- This water heater contains an electronically controlled thermostat. From the factory, the temperature range is between 90°F and 140°F.
- The remote control is factory preset to 110°F.
- To turn the remote control ON or OFF, press the POWER button for more than 3 seconds.
- To adjust the temperature to a required setting, in "priority" mode, press the UP or DOWN temperature button. Press and hold UP or DOWN to raise or lower the temperature continuously.
- When the unit is in use, the set temperature can increase to 122°F, but there is no limit to temperature decrease. To increase the temperature more than 122°F, the water will need to be shut off first.
- The display will read the set temperature if the water heater is not in use or there is no water flow. If the water heater is in use or has water flow, the display will read the actual temperature. To view the set temperature in this condition, press UP or DOWN and the set temperature will flash for 3 seconds.
- The hottest temperature water will be at the hot water faucet closest to the water heater
- Always remember to test the water temperature with your hand before use and remember that hotter water increases the risk of scald injury.
- Always supervise young children or others who are incapacitated.
- If the water heater has been subjected to fire, flood or physical damage, turn off the manual gas shut-off valve(s), and do not operate the water heater again until it has been checked by qualified personnel.

A NOTICE: If inlet water temperature is high, and set temperature is low, the actual temperature might be higher than the set temperature, and vice versa.

A WARNING: Should overheating occur or the gas supply fail to shut off, turn off the manual gas control valve to the water heater.

A NOTICE: If the BATH control is turned on, the temperature setting on the MAIN control cannot be changed. The BATH control(s) will always have PRIORITY over the MAIN control.



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Water quality

Proper maintenance of the water heater is required to ensure that your water meets EPA quality standards.

• The following table shows the maximum contaminant levels allowed, based on the EPA National Secondary Drinking Water Regulations (40 CFR Part 143.3).

▲ NOTICE: If you suspect that your water is contaminated in any way, discontinue use of the water heater and contact an authorized technician or licensed professional.

Contaminant	Maximum Allowable Level	
Total Hardness	Up to 200 mg/l (12 grains/gallon)	
Aluminum	0.05 to 0.2 mg/l	
Chloride	Up to 250 mg/l	
Copper	Up to 1.0 mg/l	
Iron	Up to 03 mg/l	
Manganese	Up to 0.05 mg/l	
PH	65 to 8.5	
Sulfate	Up to 205 mg/l	
Total Dissolved Solids (TDS)	Up to 500 mg/l	
Zinc	Up to 5 mg/l	
Chlorine	Up to 4mg/l	

Maintaining Your Water Heater

Routine preventative maintenance

▲ DANGER: Before manually operating the relief valve, make certain no one will be exposed to the danger of the hot water released by the valve. The water may be hot enough to create a scald hazard. The water should be released into a suitable drain to prevent injury or property damage.

A DANGER: Hotter water increases the potential for Hot Water Scalds.

▲ DANGER: Failure to perform the recommended Routine Preventative Maintenance can harm the proper operation of this water heater, which can cause carbon monoxide dangers, excessive hot water temperatures and other potentially hazardous conditions.

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Properly maintained, your water heater will provide years of dependable trouble-free service. It is recommended that a periodic inspection of the burner, relief valve, water filter and venting system should be made by service personnel qualified in gas appliance repair.

It is suggested that a routine preventive maintenance program be established and followed by the user.

At least once a year, lift and release the lever handle on the pressure relief valve, located in the hot outlet piping of the water heater, to make certain the valve operates freely. Allow several gallons to flush through the discharge line to an open drain.

Rapid closing of faucets or solenoid valves in automatic water using appliances can cause a banging noise heard in a water pipe. Strategically located risers in the water pipe system or water hammer arresting devices can be used to minimize the problem.

Inspect the area around the water heater to ensure a safe operating environment. Keep water heater area clear and free from combustible materials, gasoline, and other flammable vapors and liquids. Ensure the water heater has not been damaged. If damage or denting is present, contact a service personnel to verify proper operation.

Check for any abnormal sounds during normal operation of the water heater.

All piping should be checked for gas and/or water leaks. Refer to page 27 of this manual for instructions on leak testing.

The air intake and cold water supply filters should be cleaned monthly. Refer to the "Maintenance" section for further information.

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

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

NOTICE: If the pressure relief valve on the hot water heater discharges periodically, this may be due to a problem in the water system. Contact the water supplier or your plumbing contractor on how to correct this. DO NOT plug the relief valve outlet.

NOTICE: After inspection, maintenance, and/ or cleaning, ensure proper operation by turning on a hot water faucet.



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Cleaning the water filter

How to clean the water filter:

- 1. Make sure the unit is OFF and the electrical power supply has been disconnected.
- 2. Turn the water supply OFF to the heater.
- 3. Unscrew the water filter and slide the filter out.
- 4. DO NOT tap the filter as it may deform and/or damage the filter.
- 5. To remove severe dust, use a soft brush and wash with running water.
- 6. Return the filter to the water heater and screw in the filter.
- 7. Turn the electrical power supply and cold water supply ON to the water heater.



6 month cleaning routine:

To prevent water scale, lime or rust deposit buildup and ensure your tankless water heater is running as efficiently possible it is highly recommended that you clean your tankless water heater every 6 months.

Before performing any Housekeeping tasks to this water heater, be sure to turn the unit off and disconnect the power supply.

Vacuum around the water heater for dust, dirt and lint on a regular basis. Clean the water heater and remote control by using a damp soft cloth with a few drops of mild detergent and gently wiping the surfaces of the unit. Wipe any remaining moisture with a dry soft cloth.

To ensure sufficient ventilation and combustion air supply, proper clearances must be maintained. The water filters should be cleaned on a monthly basis. Combustion system is fan-assisted.

CLEANING THE WATER HEATER AND REMOTE CONTROL(S):

- Make sure the unit is OFF and the electrical power supply has been disconnected.
- **DO NOT** scrub the appliance with a brush.

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- Use only mild soapy water other cleaners may damage the surface of the water heater.
- DO NOT remove any label including the rating plate while cleaning or servicing.
- DO NOT splash water on the remote controls when cleaning.

DANGER: Shock Hazard. Make sure the electrical power to the water heater is off to avoid potential serious injury or damage to components.

▲ DANGER: Combustible materials, such as clothing, cleaning materials, or flammable liquids, etc., must not be placed against or next to the water heater.

Vacation and extended shut-down

If the water heater is to remain idle for an extended period of time, the power and water to the appliance should be turned off.

The water heater and piping should be drained if they might be subjected to freezing temperatures.

After a long shut-down period, the water heater's operation and controls should be checked by qualified service personnel.

Anti-Freezing

While the Anti-Freezers will help to protect from cold temperatures, they will in no way guarantee protection from freeze damage. DO NOT rely on the Anti-Freezers to fully protect the unit from freezing, take all precautions to prevent cold damage.

* Freezing anywhere in the plumbing system can result in damage to the water heater, such as a rupture in your Heat Exchanger. All pipes must be adequately protected from freezing.

M NOTICE: The anti-freezing device works for the water heater unit only, and not for the inlet and outlet water pipes.

Water heaters with Anti-Freezers have an automatic heating device that will help to avoid freeze damage, but the power must be kept on. Freezing will occur with no power. In very cold areas and when the temperature is under 32°F, or in the event of an ice storm, freezing will occur as the heating power limit is exceeded. If these conditions take place, please follow the procedures explained below.









Draining procedure

When the temperature falls below 32°F, water in your plumbing system or water heater can turn to ice and then expand causing damage to the water heater. This damage is not covered under your manufacturer's warranty. If these conditions are anticipated, please drain the water heater as follows to help but not guarantee from freezing:

- 1. Shut off the main gas valve and power.
- 2. Shut off the inlet water valve.
- 3. Open all faucets.
- 4. Take off the drain valve, and allow water to drain for 3 minutes or until the unit is empty.
- 5. Making sure all water is out, replace the drain valve, and shut off the faucets.

Care And Cleaning Of The WA528 Water Heater

Draining the water heater





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▲ WARNING: Failure to follow these instructions while draining the water heater can cause serious damage to the water heater as well as personal injury including scalding.

Below are instructions for draining water out of the water heater.

- 1. Turn off the switch on the remote control.
- 2. Close the gas shut-off valve(s).
- 3. Close the water shut-off valve.
- 4. Turn the on/off switch to the OFF position and disconnect breaker at least 10 seconds after step #1.
- 5. Open drain valve.
- 6. Open all hot water faucets. Before proceeding to the next step, make sure that COLD water is coming out of all hot water faucets.
- 7. To put the water heater back into operation after draining, follow the steps below.
- 8. Reinstall the water filter. Close the hot water outlet drain valve.
- 9. Open the water shut-off valve and close again after making sure that water comes out from hot water faucets. (This step is to remove air from the water lines).
- 10. Reconnect the breaker and turn the on/off switch to the ON position, fully open the gas shut-off valve and the water shut-off valve.

NOTICE: The water heater may not operate unless the above procedure is followed correctly.

Before You Call For Service

Troubleshooting tips

Save time and money! Review the charts on the following pages first and you may not need to call for service.

This water heater incorporates a variety of shut off devices that prevents the operation of the water heater down if undesirable combustion condition occurs. Such as the presence of a blockage of the combustion air vent insufficient gas or pressure which can impact the safe operation of the water heater. Please contact a Qualified Service Technician if this occurs.



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Problem	Possible Cause	What To Do	
	Water shut off valve is not fully opened	Check shut off valve and open fully	
	Hot water faucet is not fully opened	Open hot water faucet completely (the main burner goes off when incoming water volume is inadequate)	
	Water piping is frozen	Allow piping too thaw	
Not enough or no hot water	No electricity or water supply is cut off	Check that proper power is being supplied and or water supply is adequate	
Not enough of no not water	Unit is "ON"	Turn the unit "ON" by the button on the remote control	
	The temperature may be set too low	Increase the temperature setting	
	Mixing valve malfunction (if applicable)	Check and replace if necessary	
	Error code displayed on remote control panel	See instructions for Error Code and if required, contact a dealer for service	
Water not hot enough	The temperature may be set too low	Increase the temperature setting	
indici not not onough	The gas valve is not fully opened	Check and open the gas valve fully	
	The temperature is set too high	Decrease the temperature setting	
Water too hot	Water shut off valve is not fully opened	Check shut off valve and open fully	
	Small amount water has been heated	Allow more water to flow	
	Water filter is clogged	Clean the filter with a booth brush	
Fan continues to rotate after hot water faucet is closed	This function is no purge un-burned gas 10-15 seconds	Normal operation. There is no need to call for service. Check for error codes	

Error code guide

When an error code is displayed :

- Close the hot water faucet, turn off the switch on the remote control.
- Wait for about 5 minutes before turning the switch on again.
- Open the hot water faucet.

NOTICE: If an error code other than those listed below is displayed, immediately turn off the hot water faucet, take note of the error code, turn off the switch on the remote control and call the customer assistance number.

If error code remains down:

- Close the hot water faucet and turn off the switch on the remote control.
- Take the proper action shown below and attempt operation of the water heater again
- If the error code still shown:
- Turn off the hot water faucet and turn off the switch on the remote control.
- Take note of the error code displayed and call the customer service assistance number in the "If You Need Service".

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Error Code	Error Description	Possible Cause	How To Do
E0	Hot water sensor failure	Junction pot loose, short circuit.	Call for service.
E1	Ignition system failure	The gas valve is not opened or fully opened. Water shut off valve is not open. Junction port loose.	Check and open gas fully. Check and open water valve. Call for service.
E2	There is flame when no water coming in	Electric circuit problem.	Call for service.
E3	Over-heating protection	Dry Combustion.Problem of over heating controller.	Call for service.
E4	Cold water temperature sensor	problem with sensor, problem with sensor's plug or socket, none of the above.	replace the sensor, fix it, replace the computer board.
E5	Pressure switch	Motor Problem, voltage of power supply is too low.	Call for service.
E6	Over-heating	Gas pressure is too high, Water shutoff valve is not fully opened, The temperature is set too low.	Check shut-off valve and open fully, Increase temperature setting.
E7	Solenoid valve	Open circuit of the valve ,short circuit of the valve,none of the above.	Connect the valve,replace the valve,replace the PCB board.
E8	Vent pipe block	Vent pipe is blocked.	Clean the pipe.

▲ CAUTION: For your safety DO NOT attempt repair of gas piping, remote control, burners, vent connectors or other safety devices. Refer repairs to qualified service personnel.

A CAUTION: Make certain power to water heater is "OFF" before removing protective cover FOR ANY REASON.

▲ CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. VERIFY PROPER OPERATION AFTER SERVICING.

WA528 Replacement Parts

Typical installation (some items may not apply)



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NOTICE: The National Fuel Gas Code (NFGC) mandates a manual gas shut-off valve: See (NFGC) for complete instructions. Local codes or plumbing authority requirements may vary from the instructions or diagrams provided and take precedent over these instructions.

▲ CAUTION: For your safety, DO NOT attempt repair of electrical wiring, gas piping, burners, or other safety devices. Refer repairs to qualified service personnel.

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