

5 Operation

5.1 Safe Operation

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 turn the gas shutoff valve. Never use tools. If the valve will not 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 appliance if any part has been under water. Immediately contact a qualified installer or service agency to replace a flooded water heater. Do not attempt to repair the unit! It must be replaced!

OPERATING INSTRUCTIONS

1. **STOP!** Read the safety information above on this label.
2. Set the thermostat to lowest setting.
3. Turn off all electric power to the appliance.
4. Do not attempt to light the burner by hand.
5. Turn the gas shutoff valve located on the outside of the unit to the closed position.
6. Wait five (5) minutes to clear out any gas. If you then 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 the outside of the unit to the open position.
8. Turn on all electrical power to the appliance.
9. Set thermostat to desired setting.
10. If the appliance will not operate, follow the instructions in "To Turn Off Gas to Appliance" and call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Turn the gas shutoff valve located on the outside of the unit to the closed position.

5.2 Initial Operation



WARNING

- 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.
- Keep the area around the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
- Always check the water temperature before entering a shower or bath.
- Do not use this appliance if any part has been under water. Immediately call a licensed professional to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
- Should overheating occur or the gas supply fail to shut off, turn off the manual gas control valve to the appliance.
- Do not use an extension cord or an adapter plug with this appliance.
- Any alteration to the appliance or its controls can be dangerous and will void the warranty.
- If you install this water heater in an area that is known to have hard water or that causes scale build-up the water must be treated and/or the heat exchanger flushed regularly. Damage and repair due to scale in the heat exchanger is not covered by warranty.
- Keep the air intake 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 corrosive compounds in the air is not covered by warranty.

1. Once the above checks have been completed, please clean filter of any debris.



2. Fully open the manual water control valve on the water supply line.



3. Open a hot water tap to verify that water is flowing to that tap.



4. Fully open the manual gas control valve installed.



5. Turn on the 120 V 60 Hz power supply to the water heater.



6. Now you are ready to enjoy hours of endless hot water.



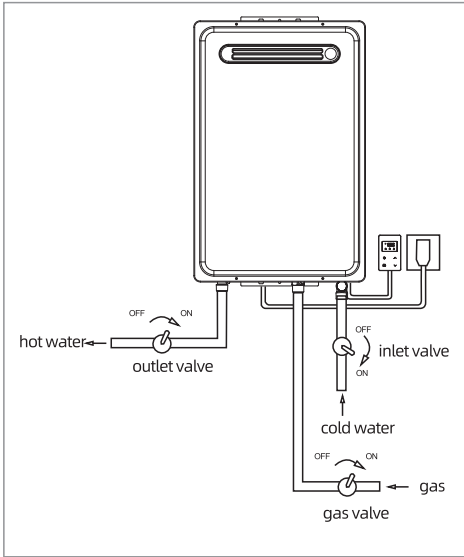
WARNING

- Do not spray in the vicinity of this appliance while it is in operation.
- Do not use or store flammable materials in or near this appliance.
- Do not place articles on or against this appliance.
- Do not modify this appliance.

5.3 Normal Operation

Starting steps:


1. Turn on the power switch.
2. After confirming power is on, press the remote control power button "U".
3. Open the inlet water valve and gas valves.
4. Open the water valve (hot water tap), the water heater will ignite and work, and hot water will flow out.
5. During the operation of the water heater, if the power supply suddenly stops, the water heater will stop working and close the gas valve. When the power is reset, the water heater with the remote control can be started by the remote control, and the water heater without the remote control can be started after re-opening the water.
6. Power failure before operation, the water heater can not start to provide hot water service.




5.4 How to Set the Temperature

This water heater requires a minimum flow rate to operate. This rate can be found on the specification page in this manual. In some cases when you are not getting hot water or if the water alternates between hot and cold, it is due to the water flow being below or close to the minimum flow rate. Increasing the flow rate should resolve these problems in these cases.


If you are experiencing issues with higher temperature settings, then reduce the temperature setting. Selecting a temperature closer to that which is actually used at the faucet will increase the amount of hot water being delivered to the faucet, due to less cold water mixing at the fixture.

**WARNING**

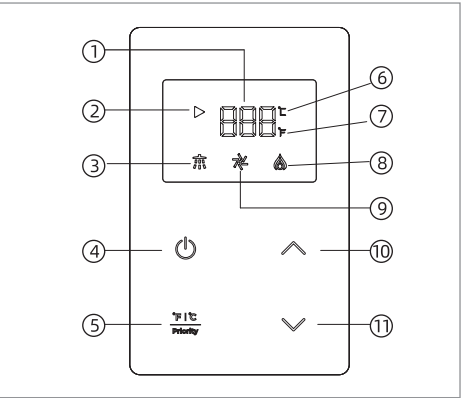
- Heated water can be dangerous, especially for young children and the infirm.
- Water temperatures above 122 °F (50 °C) can cause severe burns instantly and may even result in death.
- Those most at risk are children, the disabled, the elderly and the infirm.

**WARNING**

- Hot water at 149 °F (65 °C) can severely burn a child in less than half a second. At 122 °F (50 °C) it takes five minutes.
- Test the temperature of the water with your elbow before placing your child in the bath, also carefully feel water before bathing or showering yourself.
- Supervise children whenever they are in the bathroom.
- Make sure that the hot water tap is turned off tightly.
- Installing child proof tap covers or child resistant taps (both approaches will prevent a small hand being able to turn on the tap).
- Setting your appliance at a maximum temperature of 122 °F (50 °C).
- Leave a toddler in the care of another child. They may not understand the need to have the water temperature set at a safe level.



The wired controller is able to adjust the output temperature in the range of 95 °F (35 °C) to 158 °F (70 °C) in one degree increments.



- ① Display setting temperature
Display fault code
Display water temperature
- ② Priority icon
- ③ Shower signal
- ④ Switch button
- ⑤ Fahrenheit/Celsius Priority
- ⑥ Celsius display
- ⑦ Fahrenheit display
- ⑧ Flame
- ⑨ Blower
- ⑩ Heat up button
- ⑪ Heat down button

**ON/OFF button:**

switch between on and off status.

**Heat up button:**

Each time you press the heat up button key, the temperature will increase by 1 °C.

**Heat down button:**

Each time you press the heat down button key, the temperature will reduce by 1 °C.

**Fahrenheit/Celsius Priority button:**

1. Press toggle degrees Celsius Fahrenheit.
2. Long-press operation to enable or disable priority permission.

**WARNING**

There is a hot water scald potential if the thermostat is set too high. Should overheating occur or the gas supply fails to shut off, turn off the manual gas control valve to the appliance.

**CAUTION**

- While any hot water is being provided, the temperature setting can only be adjusted between 95 °F (35 °C) and 158 °F (70 °C).
- There may be a variation between the temperature displayed on the temperature controller and the temperature at the tap due to weather conditions or the length of pipe to the water heater.

6 Maintenance

The water heater should be checked at least once a year or as necessary by a licensed technician. If repairs are needed, any repairs should be done by a licensed technician. The water heater's lifetime may be extended by regular maintenance.

**WARNING**

- Turn off the electrical power supply and close the manual gas control valve and the manual water control valve before servicing.
- Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.
- Verify proper operation after servicing.
- Should overheating occur or the gas supply fails to shut off, turn off the manual gas control valve to the appliance.

6.1 Vent System

- Be sure that all openings for combustion air are not blocked. If blocked, remove obstruction.
- Check that the opening for exhaust is not blocked. If blocked, shutoff the water heater's combustion. And then after a while, remove obstruction.
- DO NOT touch while unit operating, otherwise you might get burnt due to high temperature.
- Check the gas pressure.
- Keep the area around the water heater clear. Remove any combustible materials, gasoline or any flammable vapors and liquids.
- Not obstructing the flow of combustion and ventilation air.