

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.

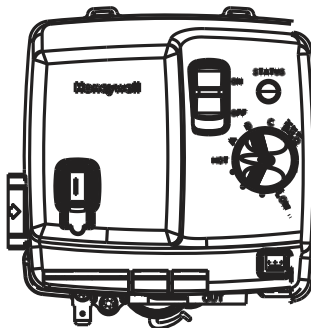
FOR YOUR SAFETY READ BEFORE OPERATING

▲ WARNING: If you do not follow these instructions and use the Use & Care Manual instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This appliance is equipped with an ignition device which automatically lights the pilot. **DO NOT** try to light the pilot by hand.
- B. **BEFORE PUTTING THIS APPLIANCE INTO SERVICE** - 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 suppliers instructions.
- C. Use only your hand to turn the gas control knob. Never use tools. If the knob will not turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call 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. Slide the "ON/OFF" switch located on the gas valve to the "OFF" position.
3. Toggle the "ON/OFF" switch located on the blower assembly to the "OFF" position.
4. Turn off all electric power to the appliance.
5. Set the valve thermostat dial to "LOW".
6. This appliance has an automatic spark ignition system. **DO NOT** attempt to light the pilot by hand.
7. Wait five (5) minutes to clear out any gas. If you smell gas, stop! Follow "B" in the safety information above on the label. If you do not smell gas, go to the next step.
8. Turn on electric power to the appliance.
9. Toggle the "ON/OFF" switch located on the blower assembly to the "ON" position.
10. Slide the "ON/OFF" switch located on the gas valve to the "ON" position.
11. Set the thermostat dial to the desired setting.
12. If the appliance will not operate, follow the instructions "TO TURN OFF GAS TO APPLIANCE" and call your service technician or gas supplier.



TO TURN OFF GAS TO APPLIANCE

1. Turn off all electric power to the appliance if service is to be performed.
2. Close manual gas shut-off valve.



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▲ CAUTION: Hydrogen gas can be produced in a hot water system served by this water heater that has not been used for a long period of time (generally two weeks or more). **HYDROGEN GAS IS EXTREMELY FLAMMABLE!!** To dissipate such gas and to reduce risk of injury, it is recommended that the hot water faucet be opened for several minutes at the kitchen sink before using any electrical appliance connected to the hot water system. If hydrogen is present, there will be an unusual sound such as air escaping through the pipe as the water begins to flow. Do not smoke or use an open flame near the faucet at the time it is open.

Safety Precautions

- A** Do not 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.
- B** Do Not turn on water heater unless it is completely filled with water.
- C** Do Not turn on water heater if cold water supply shut-off valve is closed.
- D** Do Not allow combustible materials such as newspaper, rags or mops to accumulate near water heater.
- E** 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 burners, to avoid vapors lighting.

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

- F** If there is any difficulty in understanding or following the Operating Instructions or the Care and Cleaning section, it is recommended that a qualified person or serviceman perform the work.

Operating Procedure

This heater is equipped with an electronically lit pilot to light the main burner. The pilot is automatically lit each time there is a demand for heating the water. On initial start-up, it is recommended that the outer door be removed (leave inner door in place for safety) to determine if the pilot and main burner are operating properly. Once filled with water, it is necessary to plug the power cord in and make sure the "ON/OFF" switch located on the blower assembly is in the "ON" position and the gas control switch is in the "ON" position. The blower will start and within seconds the pilot will light followed by the main burner.

After the main burner ignites, replace the outer door.

If no main burner flame is established, the gas control will go through three trials for ignition before going into a lock-out. A warning light will alert the user of this lock-out condition. If this happens, refer to "Troubleshooting Guide."

Water Temperature Setting

▲ DANGER: Hotter water increases the Potential for Hot Water SCALDS. Households with small children, disabled, or elderly persons may require a 120°F or lower gas control (thermostat) setting to prevent contact with HOT water.

The temperature of the water in the water heater can be regulated by turning the knob on the front of the gas control (thermostat). Safety and energy conservation are factors to be considered when selecting the water temperature setting of the water heater's gas control (thermostat(s)). The lower the temperature setting, the greater the savings in energy and operating costs.

To comply with safety regulations, the gas control (thermostat) was set at 120°F before the water heater was shipped from the factory. The recommended starting point temperature is 120°F.

Water temperatures above 125°F can cause severe burns or death from scalding. Be sure to read and follow the warnings outlined in this manual and on the label located on the water heater near the gas control thermostat.

Mixing valves are available for reducing point of use water temperature by mixing hot and cold water in branch water lines. Contact a licensed plumber or the local plumbing authority for further information. (See page 4 for more details.)

The chart on the next page may be used as a guide in determining the proper water temperature for your home.

Operating the water heater cont.

Water Temperature Setting...

The following is additional information which aid in determining a safe working temperature to meet each household need.

Maximum water temperatures occur just after the burner has shut off. To determine the water temperature, turn on a hot water faucet and place a thermometer in the water stream. If an adjustment to the water temperature is preferred, then refer to the Water Heater User Display – Operation Instructions for instruction on adjusting the local and remote user display temperature setpoints.

A condition known as “stacking” or “layering” can occur when a series of short and frequent hot water draws are taken. The hottest temperature water will be at the top of the tank, closest to the outlet pipe delivering hot water to the home.

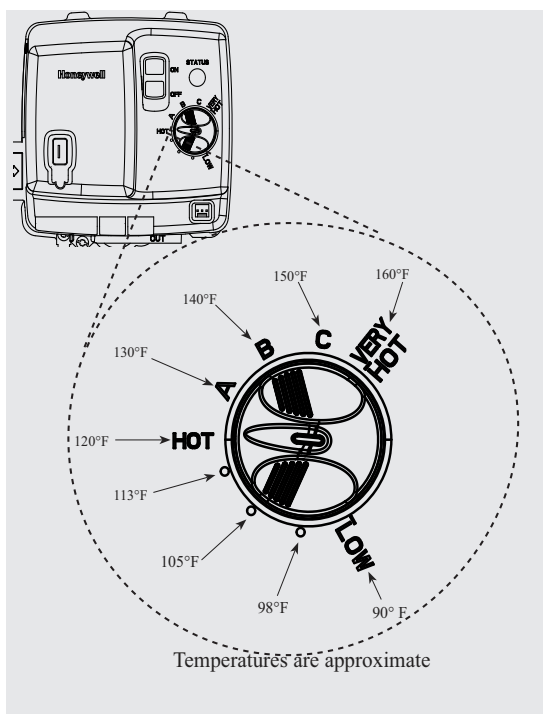
Stacking can cause this top layer of water to be hotter than the water toward the bottom of the tank near the gas control (thermostat). Therefore, always remember to test the water temperature with your hand before use and remember that hotter water increases the risk of scald injury. Also, always supervise young children or others who are incapacitated.

The gas control (thermostat) is constructed with a built in safety shut-off device designed to shut off the gas supply to the burner if the main burner is extinguished for any reason. The gas control (thermostat) is also equipped with a gas shut off device that will shut off the gas supply to the burner if the water heater exceeds normal operating temperatures. Refer to the “Before You Call For Service” section of this manual, or contact your dealer.

▲ WARNING: Should overheating occur or the gas supply fail to shut off, turn off the manual gas control valve to the appliance

If the water heater has been subjected to fire, flood or physical damage, turn off the manual gas control (shut-off) valve and do not operate the water heater again until it has been checked by a qualified service technician.

NOTICE: Replace any part of the gas control system which has been under water.



Time/Temperature Relationship in Scalds

Water Temperature	Time To Produce a Serious Burn
120°F	More than 5 minutes
125°F	1½ 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 1½ seconds
155°F	About 1 second

Table courtesy of Shriners Burn Institute

<http://waterheatertimer.org/BW.html#Temp>

<http://waterheatertimer.org/How-to-install-gas-water-heater.html>