

1 Safety Information

1.1 Safety Definitions

This manual has safety information and instructions to help you eliminate or reduce the risk of accidents and injuries.



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION

Indicates a hazardous situation which, if not avoided, could result in property damage and minor or moderate injury.



NOTICE

This symbol indicates important information where there is no risk to people or property.

1.2 Important Safety Instructions



WARNING

When using electrical appliances, safety precautions to reduce the risk of fire, electric shock or injury to persons should be followed.

1. READ ALL INSTRUCTIONS BEFORE USING THIS WATER HEATER.
2. This water heater must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on (specific page or section to be included).
3. Install or locate this water heater only in accordance with the provided installation instructions.

4. Use this water heater only for its intended use as described in this manual.
5. Do not use an extension cord set with this water heater. If no receptacle is available adjacent to the water heater, contact a qualified electrician to have one properly installed.
6. As with any appliance, close supervision is necessary when used by children.
7. Do not operate this water heater if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
8. This water heater should be serviced only by qualified service personnel. Contact nearest authorized service facility for examination, repair, or adjustment.
9. Do not use multi-outlet adaptors (i.e. power strips) with this water heater.
10. Failure to inspect the anode rod at least once a year could cause the tank to fail and leak. This condition is not covered under the manufacturer's warranty.
11. Any water heater should be installed in such a manner that if it should leak, the resulting flow of water will not cause damage to the area in which it is installed. National Plumbing codes require a drain pan for any water heater installation. Failure to install one is the sole responsibility of owner and/or installer. Reference UPC 2006 (Uniform Plumbing Code) Section 508.1, or IPC 2006 (International Plumbing Code) Section 504.7.



CAUTION

The installer should review the contents of this manual with the owner upon completion of installation, and the manual should be left with the owner and placed in a location close to the installation.



CAUTION

The manufacturer cannot be responsible for the damages caused by improper installation or by failure to follow instructions in this manual. Comply with the installation instructions before completing electric connection.

**DANGER**

Hydrogen gas is produced in a hot water system served by this heater that has not been used for a long period of time (2 weeks or more). Hydrogen gas is extremely flammable. To reduce the risk of injury under these conditions, 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. When hydrogen is present, there will probably be an unusual sound such as air escaping through the pipe as the water begins to flow. There should be no smoking or open flame near the faucet at the time it is open.

**CAUTION**

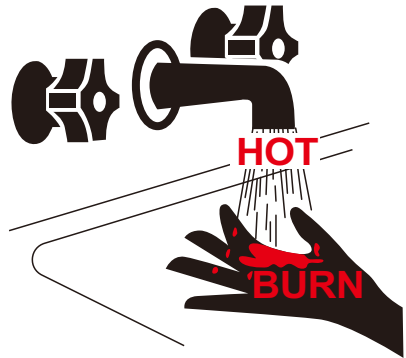
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**CAUTION**

Prior to connecting the power supply, ensure tank is full of water and system is purged of air.

**NOTICE**

Tank failure due to neglecting to maintain the anode rod is not covered under warranty (see Section 5 Maintenance).

1.3 Water Temperature Adjustment**! DANGER**

Water temperature over 125 °F can cause severe burns instantly or death from scalds.

Temperature control settings usually approximate tap water temperature. However, factors could cause water temperature to reach 160°F regardless of the control settings.

Children, disabled and elderly are at highest risk of being scalded.

See instruction manual before setting temperature at water heater.

Feel water before bathing or showering.

Temperature limiting valves are available; see manual.

Safety, energy conservation, and hot water capacity are factors to be considered when selecting the water temperature setting of the water heater. Water temperatures above 125°F can cause severe burns or death from scalding. Be sure to read and follow the warnings outlined on the label pictured to the left. This label is also located on the water heater near the top of the tank.

Time/Temperature Relationship in Scalds

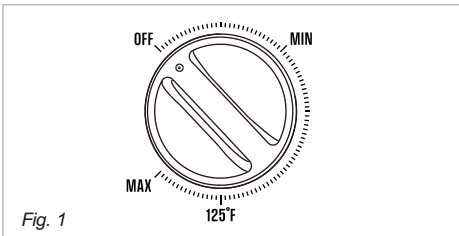
Temperature	Time to Produce a Serious Burn
120 °F (49 °C)	More than 5 minutes
125 °F (52 °C)	1-1/2 to 2 minutes
130 °F (54 °C)	About 30 seconds
135 °F (57 °C)	About 10 seconds
140 °F (60 °C)	Less than 5 seconds
145 °F (63 °C)	Less than 3 seconds
150 °F (66 °C)	About 1-1/2 seconds
155 °F (68 °C)	About 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
 There is a Hot Water SCALD Potential if the water temperature thermostat is set too high. Households with small children, disabled or elderly persons may require a 120 °F (49 °C) or lower thermostat setting to prevent contact with "HOT" water.

! CAUTION
 The thermostat has been set at the factory to 125 °F (51.7 °C) or lower to reduce the risk of scald injury.



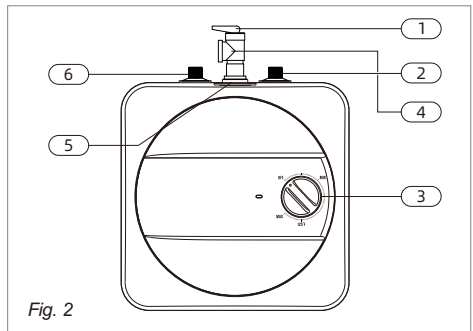
Water Temperature Setting

The temperature of the water in the water heater can be regulated by setting the temperature dial of the adjustable surface mounted thermostat(s) located behind the jacket access panel(s).

! DANGER
 Hotter water increases the Potential for Hot Water SCALDS.

2 Information about the product

2.1 Models overview



1. Temperature & pressure relief valve, 3/4 NPT male
2. Cold water inlet(BLUE) 1/2 NPT male
3. Temperature Adjustment Knob
4. Temperature & pressure relief valve discharge line to drain
5. 3/4 NPT female tapping for relief valve
6. Hot water outlet (RED) 1/2 NPT male