



Hazard Statements/Warning Messages


	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
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	DANGER indicates an imminently hazardous situation which, if not avoided, will result in injury or death.
	WARNING indicates a potentially hazardous situation which, if not avoided, could result in injury or death.
	CAUTION indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.
	CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, could result in property damage.

 CAUTION	

 DANGER	
	Scalding Hazard Water temperature over 125°F (52°C) can cause severe burns instantly resulting in severe injury or death. Children, the elderly, and the infirm should be supervised when bathing or showering. Feel water before bathing or showering. Temperature limiting devices such as mixing valves must be installed when required by codes and to ensure safe operation.

 DANGER	
	Burn Hazard Hot water over 125 °F can cause severe burns instantly resulting in severe injury or death. Children, the elderly, and the infirm should be supervised when bathing or showering. Feel the water before bathing or showering. Temperature limiting devices such as mixing valves must be installed when required by codes and to ensure safe operation.

 DANGER	
	Burn Hazard Severe burns can result from coming into contact with the Temperature-Pressure Relief valve discharge. Keep clear of the Temperature-Pressure Relief valve discharge outlet.

 CAUTION	
	Burn Hazard While operating, water heater components can be hot enough to cause burns.

- Do not touch any part of the combustion chamber or burner sleeve and housing while the water heater is operating.
- Do not reach into the burner housing or combustion chamber if the water heater is still hot.
- Allow the water heater to cool and always use gloves when handling the main burner.

DANGER

Fire Hazard

Fire can be ignited by the water heater resulting in severe injury or death.

- Do not install water heater on a carpeted floor.
- Do not operate water heater if it has been exposed to flooding or water damage.

DANGER

Fire or Explosion Hazard

Flamable or explosive vapors from spilled or leaking containers can be ignited by the water heater resulting in fire or explosion.

- Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.
- Avoid all ignition sources if you smell gas.
- Do not expose water heater controls to excessive gas pressure.
- Use only the gas shown on the water heater rating label.
- Maintain required clearances to combustibles.
- Keep ignition sources away from faucets after extended periods of non-use.

DANGER

Fire or Explosion Hazard

Flamable or explosive vapors from spilled or leaking containers can be ignited by the water heater resulting in fire or explosion.

- Do not store or use gasoline, solvents, adhesives, or other flammable vapors or liquids in the vicinity of this or any other appliance.
- Use only approved containers.
- Keep containers tightly closed and out of the reach of children.
- Avoid all ignition sources if you smell gas.
- Do not expose water heater controls to excessive gas pressure.
- Use only the gas shown on the water heater rating label.
- Maintain required clearances to combustibles.
- Keep ignition sources away from faucets after extended periods of non-use.

WARNING

Breathing Hazard - Carbon Monoxide Gas

Breathing carbon monoxide can cause brain damage or death. Always read and understand instruction manual.

- Do not obstruct water heater air intake with insulating blanket.
- Gas and carbon monoxide detectors are available.
- Install water heater in accordance with the instruction manual.

WARNING

Breathing Hazard - Carbon Monoxide Gas

Breathing carbon monoxide can cause brain damage or death. Always read and understand instruction manual.

- Install vent system in accordance with codes.
- Do not operate water heater if any part has been exposed to flooding or water damage.
- Special consideration must be taken with installations above 10,000' (3,078m) for standard models.
- Do not operate if soot buildup is present.
- Do not obstruct water heater air intake with insulating blanket.
- Do not place chemical vapor emitting products near water heater.
- Gas and carbon monoxide detectors are available.
- No vent-damper installation is compatible with this power-vented water heater.
- Install water heater in accordance with the instruction manual.
- Condensate lines (field supplied) must not be elevated above the exhaust elbow assembly drain outlet. This must be done by the installer.
- Condensate lines must be free and clear of debris and must not allow backflow through the lines. The condensate lines must be installed with a minimum slope of 1/4" per foot.
- Do not allow condensate lines to become crimped closed.
- Analyze the entire vent system to make sure that condensate will not become trapped in a section for vent pipe and vent cap.
- Do not install any external condensate trap. The exhaust elbow assembly has an internal condensate trap..

WARNING

Breathing Hazard

The gas used in these water heaters can ignite or explode if not properly handled.

- Under no circumstances should the input exceed the rate shown on the water heater's rating label.
- Overfiring could result in fire or explosion.
- Gas and carbon monoxide detectors are available.

WARNING

Fire or Explosion Hazard

The gas used in these water heaters can ignite or explode if not properly handled.

- Under no circumstances should the input exceed the rate shown on the water heater's rating label.
- Overfiring could result in fire or explosion.
- Gas and carbon monoxide detectors are available.

WARNING

Fire or Explosion Hazard

The gas used in these water heaters can ignite or explode if not properly handled.

- Do not use water heater with any gas other than the gas shown on the rating label.
- Excess gas pressure to gas valve can cause serious injury or death.
- Turn off gas lines during installation.
- Contact a qualified installer or service agency for installation and service.

WARNING

Fire or Explosion Hazard

The gas used in these water heaters can ignite or explode if not properly handled.

- Use joint compound or Teflon tape compatible with propane gas.
- Leak test gas connections before placing water heater in operation.
- Disconnect gas piping at main gas shutoff valve before leak testing heater.
- Install sediment trap in accordance with NFPA 54 or CAN/CSA B149.1.

WARNING

Explosion Hazard

Overheated water can cause water tank explosion.

Properly sized temperature and pressure relief valve must be installed in the opening provided.

WARNING

Explosion Hazard

Failure of the temperature-pressure relief valve can result in overheating, excessive tank pressure, or explosion causing serious injury or death.

- The temperature-pressure relief valve must comply with *ANSI Z21.22-CSA 4.4*, and the *ASME code*.
- A properly-sized temperature-pressure relief valve must be installed in the opening provided.

WARNING

Explosion Hazard

Failure of the pressure relief valve can result in overheating, excessive tank pressure, or explosion causing serious injury or death.

- The pressure relief valve must comply with *ASME code*.
- A properly-sized relief valve must be installed in opening provided.

CAUTION

Water Damage Hazard

The temperature-pressure relief valve can discharge a sufficient amount of water to cause water damage.

Be sure to terminate the temperature-pressure relief valve discharge pipe at an adequate drain.

CAUTION

Water Damage Hazard

The pressure relief valve can discharge a sufficient amount of water to cause water damage.

Be sure to terminate the pressure relief valve discharge pipe at an adequate drain.

WARNING

Breathing Hazard - Carbon Monoxide Gas

Breathing carbon monoxide can cause brain damage or death.

- Do not obstruct water heater air intake with insulation blanket.
- Gas and carbon monoxide detectors are available.
- Install water heater in accordance with the instruction manual.

⚠ WARNING

Breathing Hazard - Carbon Monoxide Gas

Breathing carbon monoxide can cause brain damage or death.

- Do not obstruct water heater air intake.
- Gas and carbon monoxide detectors are available.
- Install water heater in accordance with the instruction manual.

⚠ WARNING

Breathing Hazard - Carbon Monoxide Gas

Breathing carbon monoxide can cause brain damage or death.

- Always read and understand instruction manual.
- Install water heater in accordance with the instruction manual and *NFPA 54* or *CAN/CSA-B149.1*.
- To avoid injury, combustion and ventilation air must be taken from outdoors.
- Do not place chemical vapor emitting products near water heater

⚠ WARNING

Breathing Hazard - Carbon Monoxide Gas

Breathing carbon monoxide can cause brain damage or death.

- Install vent system in accordance with codes.
- Do not operate water heater if exposed to flooding or water damage.
- Special consideration must be taken with installations above 10,000 feet (3,048 m) refer to high altitude section
- Do not operate if soot buildup.
- Do not obstruct water heater air intake with insulating jacket or blanket.
- Do not place chemical vapor emitting products near water heater.
- Gas and carbon monoxide detectors are available.
- Never operate the heater unless it is vented to the outdoors and has adequate air supply to avoid risks of improper
- Analyze the entire vent system to make sure that condensate will not become trapped in a section of vent pipe a

⚠ WARNING

Explosion Hazard

Explosive hydrogen gas might be present.

Keep all ignition sources away from faucet when turning on hot water.

⚠ WARNING

Explosion Hazard

Overheated water can cause the water tank to explode.

Properly sized temperature and pressure relief valve must be installed in the opening provided.

⚠ WARNING**Fire and Explosion Hazard**

Severe injury or death could result from a fire or explosion caused by a failure to follow these precautions.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Avoid all ignition sources if you smell gas.
- Do not expose water heater controls to excessive gas pressure.
- Use only the gas shown on the water heater rating label.
- Maintain required clearances to combustibles.
- Keep ignition sources away from faucets after extended periods of non-use.
- Read instruction manual before installing, using or servicing water heater.

⚠ CAUTION**Property Damage Hazard**

All water heaters eventually leak.

- Do not install without adequate drainage.
- Ensure proper drainage for potential leakage.
- Failure to follow these instructions and safety messages could result in property damage.

⚠ CAUTION**Property Damage Hazard**

Improper installation, use and service may result in property damage.

- Do not operate water heater if exposed to flooding or water damage.
- Inspect anode rods regularly, replace if damaged.
- Install in location with drainage.
- Fill tank with water before operation.
- Properly sized thermal expansion tanks are required on all closed water systems.
- Refer to this manual for installation and service.

⚠ CAUTION**Property Damage Hazard**


Improper installation, use and service may result in property damage.

- Do not operate water heater if exposed to flooding or water damage.
- Do not operate water heater if the water heater has external damage.
- Do not operate water heater if the water heater has been fired without water.
- Do not operate water heater if there is any evidence of sooting.

⚠ WARNING**Risk of Serious Injury or Death**


Failure to follow these instructions and safety messages could result in death or serious injury.

Read and understand this instruction manual and the safety messages herein before installing, operating, or servicing the



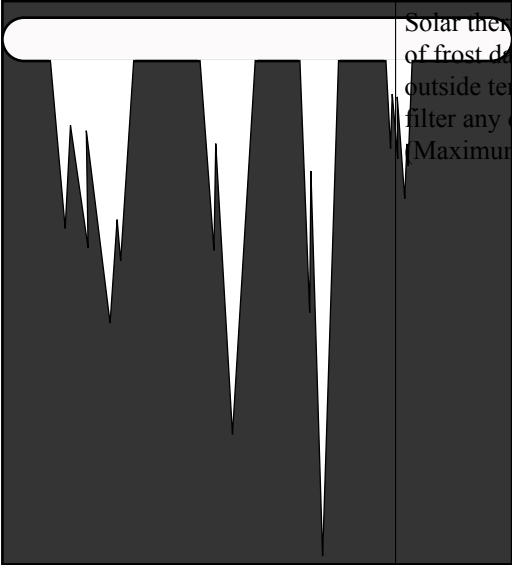
WARNING

	<p>Electrical Shock Hazard</p> <p>Failure to follow these instructions can result in serious personal injury or death.</p> <ul style="list-style-type: none">• Turn off power at the branch circuit breaker serving the water heater before performing any service.• Label all wires prior to disconnecting when performing service. Wiring errors can cause improper and dangerous operation.• Verify proper operation after servicing.
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DANGER

	<p>Property Damage, Personal Injury, or Death</p> <p>Jumping out control circuits or components can result in property damage, personal injury, or death.</p> <ul style="list-style-type: none">• Altering in any way, the control circuits, components, or wiring of the water heater, could result in permanent damage.• Service must be performed by a qualified service technician only using proper test equipment.
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	<p>Frost Damage</p> <p>Solar thermal installations cannot be completely emptied after flushing. There is a danger of frost damage if water is used for flushing. Only use water to flush the system when the outside temperature is above 32°F, otherwise use the solar fluid to flush, making sure to filter any debris before final filling. Use a water/propylene glycol mixture as a solar fluid. (Maximum 50% propylene glycol.)</p>
	
<p>frost damage</p>	



Caution

	<p data-bbox="488 159 639 191">Frost Damage</p> <p data-bbox="488 216 1445 373">Solar thermal installations cannot be completely emptied after flushing. There is a danger of frost damage if water is used for flushing. Only use water to flush the system when the outside temperature is above 32°F, otherwise uses the solar fluid to flush, making sure to filter any debris before final filling. Use a water/probylend glycol mixture as a solar fluid. (Maximum 50% propylene glycol.)</p>
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