

# IMPORTANT SAFETY INFORMATION. READ ALL INSTRUCTIONS BEFORE USING.

**INSTALLER:** Leave this manual with the appliance.

**CONSUMER:** Retain this manual for future reference.

**⚠ WARNING:** If the information in this manual 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 appliance.

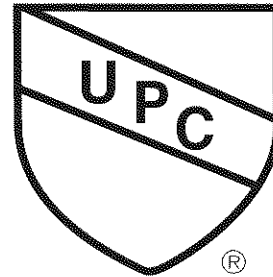
## – WHAT TO DO IF YOU SMELL GAS

- 1 Do not try to light a match, or cigarette, or turn on any gas or electrical appliance.
  - 2 Do not touch any electrical switch; do not use any phone in your building.
  - 3 Clear the room, building or area of all occupants.
  - 4 Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions carefully.
  - 5 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.

**⚠ WARNING!** 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.



ANSI Z21.10.3 • CSA 4.3



This water heater has the ability to check its own operation continuously. If a fault occurs, an error code will flash on the display of the remote control only when the water is running. This assists with diagnosing the fault, and may enable you to overcome a problem without a service call. Please identify the code displayed when inquiring about service.

**⚠ WARNING:** Some of the checks below may need to be done by a qualified service technician.

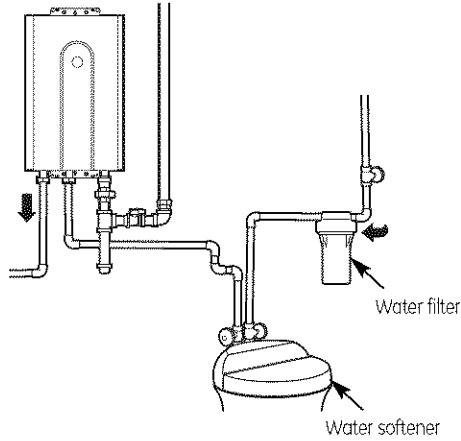
## Error Code Table

ERROR	Fault	Remedy
02	No burner operation during freeze protection mode	<ul style="list-style-type: none"> <li>• Check that the gas is turned on at the water heater, gas meter or cylinder. If the system is propane, make sure gas is in the tank.</li> <li>• Call for service.</li> </ul>
10	Air supply or exhaust blockage	<ul style="list-style-type: none"> <li>• Ensure GE-approved venting materials are being used.</li> <li>• Check that nothing is blocking the flue inlet or exhaust.</li> <li>• Check all vent components for proper connections.</li> </ul>
11	No ignition	<ul style="list-style-type: none"> <li>• Check that the gas is turned on at the water heater, gas meter or cylinder. If the system is propane, make sure gas is in the tank.</li> <li>• Ensure appliance is properly grounded.</li> </ul>
12	Flame failure	<ul style="list-style-type: none"> <li>• Check that the gas is turned on at the water heater, gas meter or cylinder. Check for obstructions in the flue outlet. If the system is propane, make sure gas is in the tank.</li> <li>• Ensure appliance is properly grounded.</li> </ul>
14	Thermal fuse	<ul style="list-style-type: none"> <li>• Call for service.</li> </ul>
16	Over temperature warning	<ul style="list-style-type: none"> <li>• Check for restrictions in air flow around unit and vent outlet.</li> <li>• Check for foreign materials in exhaust piping.</li> </ul>
32-72		<ul style="list-style-type: none"> <li>• Call for service.</li> </ul>
LC (00)	Scale buildup in heat exchanger	<ul style="list-style-type: none"> <li>• See page 11 for Flushing Procedures.</li> </ul>
No code	Nothing happens when water flow is activated	<ul style="list-style-type: none"> <li>• Clean inlet water supply filter.</li> <li>• On new installations, ensure hot and cold water lines are not reversed.</li> <li>• Ensure you have at least the minimum flow rate required to fire the unit.</li> </ul>

## Water quality.

Care for your water heater should include evaluation of water quality. If the water exceeds the target levels provided in the table, you should treat or condition the water.

If you are in a hard water area, it is recommended to install a GE water softener prior to the water heater.



	MAXIMUM LEVEL
Total Hardness	Up to 200 mg/L (12 grains)
Aluminum*	Up to 0.2 mg/L
Chlorides*	Up to 250 mg/L
Copper*	Up to 1.0 mg/L
Iron*	Up to 0.3 mg/L
Manganese*	Up to 0.05 mg/L
pH*	6.5 to 8.5
TDS (Total Dissolved Solids)*	Up to 500 mg/L
Zinc*	Up to 5 mg/L

\* Source: Part 143 National Secondary Drinking Water Regulations

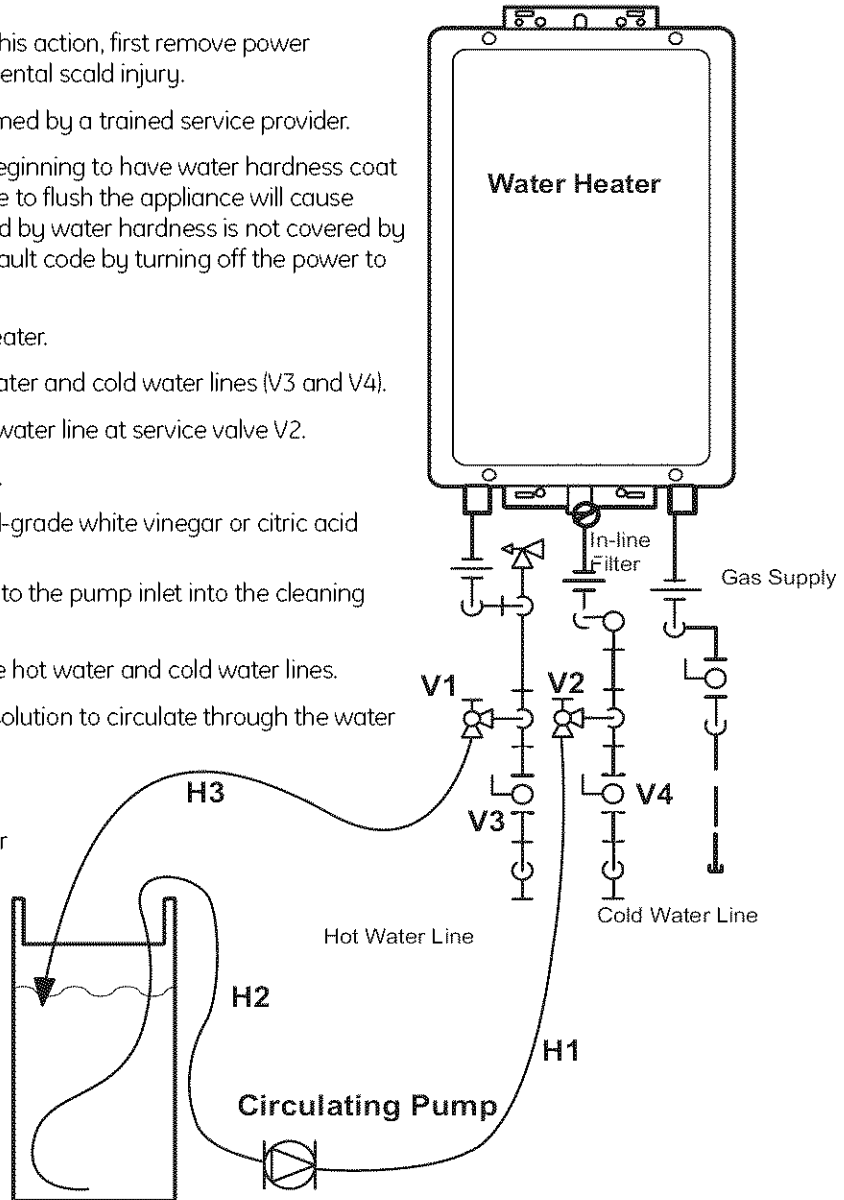
# Flushing the heat exchanger (error code LC or 00).

**⚠ WARNING:** Before performing this action, first remove power to the water heater in order to prevent an accidental scald injury.

**NOTE:** GE recommends that this task be performed by a trained service provider.

An "LC" or "00" error code indicates the unit is beginning to have water hardness coat the heat exchanger and must be flushed. Failure to flush the appliance will cause damage to the heat exchanger. Damage caused by water hardness is not covered by the unit's warranty. After flushing, reset the LC fault code by turning off the power to the unit and turning the power back on.

- 1 Disconnect electrical power to the water heater.
- 2 Close the shut-off valves on both the hot water and cold water lines (V3 and V4).
- 3 Connect pump outlet hose (H1) to the cold water line at service valve V2.
- 4 Connect drain hose (H3) to service valve V1.
- 5 Pour approximately 4 gallons of virgin, food-grade white vinegar or citric acid into pail.
- 6 Place the drain hose (H3) and the hose (H2) to the pump inlet into the cleaning solution.
- 7 Open both service valves (V1 and V2) on the hot water and cold water lines.
- 8 Operate the pump and allow the cleaning solution to circulate through the water heater for 45 minutes.
- 9 Turn off the pump.
- 10 Rinse the cleaning solution from the water heater by:
  - a. removing the free end of the drain hose (H3) from the pail,
  - b. closing service valve V2 and opening shut-off valve V4 (do not open shut-off valve V3),
  - c. allowing water to flow through the water heater for 5 minutes,
  - d. closing service valve V1 and opening shut-off valve V3.
- 11 Disconnect all hoses.
- 12 Remove the in-line filter at the cold water inlet and clean out any residue. Place the filter back into the unit. See page 7.
- 13 Restore electrical power to the water heater.



5-gallon pail of virgin, food-grade white vinegar (or virgin, food-grade citric acid)

### KEY

	3/4" Ball Valve		Pressure Regulator
	3/4" Union		Circulating Pump
	Check Valve		Boiler Drain Valve
	Pressure Relief Valve		Solenoid Valve

# Before you call for service...

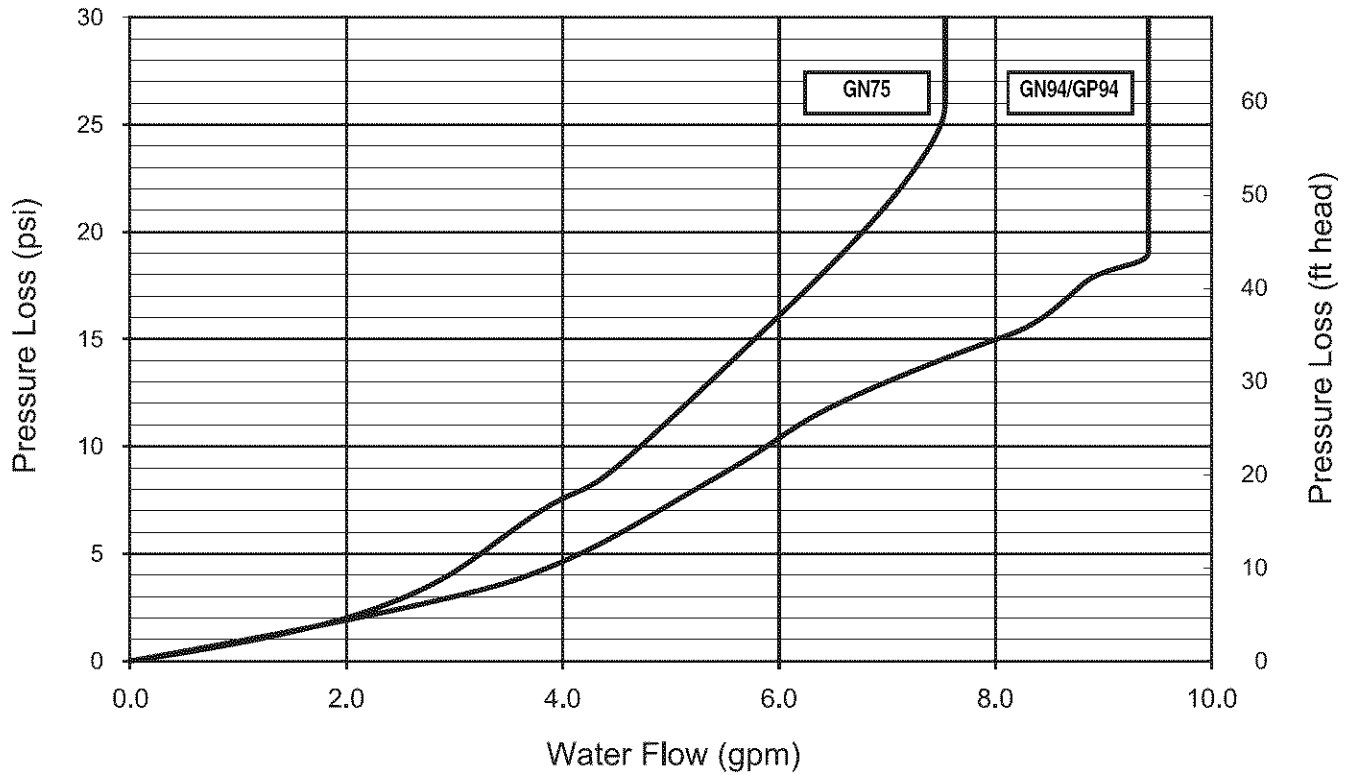


**Troubleshooting Tips**  
 Save time and money! Review the chart below first and you may not need to call for service.

PERFORMANCE	Possible Causes	What To Do
<p><i>There is no hot water when tap is opened</i></p>	<p>There is no gas, water or electricity flowing to unit.</p> <p>The system requires approximately 0.6 gpm minimum flow to activate the heater.</p>	<ul style="list-style-type: none"> <li>• Make sure gas, water and power are turned on.</li> <li>• Ensure faucet aerators are clean and faucet flows at least 0.6 gpm of hot water.</li> <li>• During summer months, increase the temperature setting at the control or increase the water flow.</li> </ul>
<p><i>Water gets cold when hot water is being used</i></p>	<p>If the flow from the tap was adjusted to lessen it, the flow may have gone below the minimum required.</p>	<ul style="list-style-type: none"> <li>• During summer months, increase the temperature setting at the control or increase the water flow.</li> <li>• Water flow might be increased by cleaning the aerators on the faucets.</li> </ul>
<p><i>White smoke comes out of the exhaust</i></p>	<p>During colder weather, when the exhaust temperature is much hotter than the outside air, the exhaust fumes condense, producing water vapor.</p>	
<p><i>When a hot tap is opened, hot water does not come out immediately</i></p>	<p>Hot water must travel through the plumbing from the water heater to the faucet. The time period for hot water to reach the fixture is determined by the amount of water in the plumbing system between the water heater and the fixture, water pressure and the flow rate of the fixture.</p>	
<p><i>After hot water tap is turned off, fan on water heater continues to run</i></p>	<p>The fan is designed to continue running for a short time after the flow of water stops. This is to ensure constant water temperatures during rapid starting and stopping, as well as exhausting any residual gas flue products from the unit.</p>	
<p><i>Display shows temperatures between 37° and 60°.</i></p>	<p>Control is displaying temperature in Celsius.</p>	<ul style="list-style-type: none"> <li>• Change control to Fahrenheit. See page 6.</li> </ul>

# Technical data.

PRESSURE DROP CURVE



OUTLET FLOW DATA

