

# Instruction Manual for Residential Gas Water Heaters

**NOT FOR USE IN MANUFACTURED (MOBILE) HOMES**



GAMA certification applies to all residential gas water heaters with capacities of 20 to 100 gallons with input rating of 75,000 BTU/Hr. or less.

**ALL TECHNICAL AND WARRANTY QUESTIONS:** SHOULD BE DIRECTED TO THE LOCAL DEALER FROM WHOM THE WATER HEATER WAS PURCHASED. IF YOU ARE UNSUCCESSFUL, PLEASE WRITE TO THE COMPANY LISTED ON THE RATING PLATE ON THE WATER HEATER.

## For Your Safety **AN ODORANT IS ADDED TO THE GAS USED BY THIS WATER HEATER**

**WARNING:** If the information in these instructions are 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

- Do not try to light any appliance.
- Do not touch any electrical 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.

–Installation and service must be performed by a qualified installer, service agency or the gas supplier.

### WARNING

Improper installation, adjustment, alteration, service or maintenance can cause DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE. Refer to this manual for assistance or consult the local gas utility for further information.

### WARNING

Flammable vapors may be drawn by air currents from other areas of the structure to this appliance.

### WARNING

READ THE GENERAL SAFETY SECTION BEGINNING ON INSIDE COVER AND THEN THIS ENTIRE MANUAL BEFORE INSTALLING OR OPERATING THIS WATER HEATER.

# Installing the New Water Heater (cont'd)

## Filling the Water Heater

### ▲ CAUTION

Never use this water heater unless it is completely full of water. To prevent damage to the tank, the tank must be filled with water. Water must flow from the hot water faucet before turning "ON" gas to the water heater.

To fill the water heater with water:

1. Close the water heater drain valve by turning the handle to the right (clockwise). The drain valve is on the lower front of the water heater.
2. Open the cold water supply valve to the water heater.  
**NOTE: The cold water supply valve must be left open when the water heater is in use.**
3. To insure complete filling of the tank, allow air to exit by opening the nearest hot water faucet. Allow water to run until a constant flow is obtained. This will let air out of the water heater and the piping.
4. Check all new water piping for leaks. Repair as needed.

## Venting

### ▲ WARNING

**VENT DAMPERS** - Any vent damper, whether it is operated thermally or otherwise must be removed if its use inhibits proper drafting of the water heater.

**Thermally Operated Vent Dampers:** Gas-fired water heaters having thermal efficiency in excess of 80% may produce a relatively low flue gas temperature. Such temperatures may not be high enough to properly open thermally operated vent dampers. This would cause spillage of flue gases and may cause carbon monoxide poisoning.

Vent dampers must bear evidence of certification as complying with the current edition of the American National Standard ANSI Z21.68 (ANSI Z21.66 & 67, respectively, cover electrically and mechanically actuated vent dampers). Before installation of any vent damper, consult the local gas utility for further information.

### ▲ WARNING

To insure proper venting of this gas-fired water heater, the correct vent pipe diameter must be utilized. Any additions or deletions of other gas appliances on a common vent with this water heater may adversely affect the operation of the water heater. Consult the local gas utility if any such changes are planned.

For proper venting in certain installations, a larger diameter vent pipe may be necessary. Due to great variances in installations, unforeseeable by the manufacturer of the water heater, you must consult your gas company to aid you in determining the proper venting for your water heater from the vent tables in the current edition of the National Fuel Gas Code ANSI Z223.1, also referred to as NFPA 54.

Check the venting system for signs of obstruction or deterioration and replace if needed.

The combustion and ventilation air flow must not be obstructed.

### ▲ WARNING

The water heater with draft hood installed must be connected to a chimney which terminates to the outdoors. Never operate the water heater unless it is vented to the outdoors and has adequate air supply to avoid risks of improper operation, explosion or asphyxiation.

### ▲ WARNING

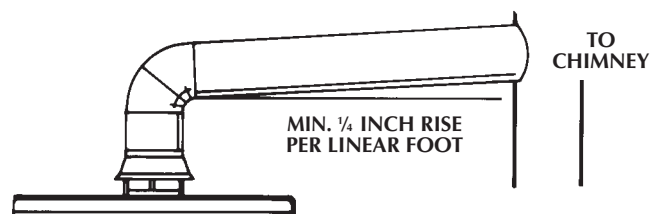
Obstructed or deteriorated vent systems may present serious health risk or asphyxiation.

### ▲ WARNING

The vent pipe from the water heater must be no less than the diameter of the draft hood outlet on the water heater, and must slope upward to the chimney at least 1/4 inch per linear foot.

All vent gases must be completely vented to the outdoors of the structure (dwelling). Install only the draft hood provided with the new water heater and no other draft hood.

Vent pipes must be secured at each joint with sheet metal screws.



VENT PIPE INSTALLATION

There must be a minimum of 6 inches clearance between single wall vent pipe and any combustible material. Fill and seal any clearance between single wall vent pipe and combustible material with mortar mix, cement, or other noncombustible substance. For other than single wall, follow vent pipe manufacturer's clearance specifications. To insure a tight fit of the vent pipe in a brick chimney, seal around the vent pipe with mortar mix cement.

### ▲ WARNING

Failure to have required clearances between vent piping and combustible material will result in a fire hazard.