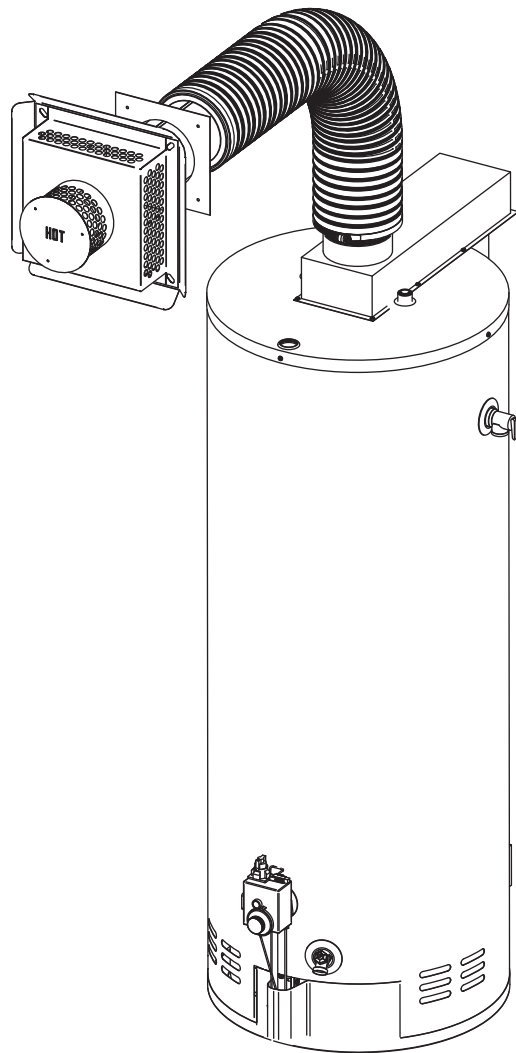


RESIDENTIAL DIRECT VENT GAS-FIRED WATER HEATERS OWNER'S MANUAL

(MEET THE FVIR TECHNOLOGY STANDARDS)

INSTALLATION AND OPERATING INSTRUCTIONS



WARNING

This water heater **IS NOT** design certified for installation in a manufactured (mobile) home or for installation outdoors.

WARNING

If the information in these instructions 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 vapours 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.
- **From a neighbour's phone, immediately call your gas supplier.** 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.

IMPORTANT

READ THESE INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION. PROPER INSTALLATION WILL PROVIDE SAFE AND EFFICIENT SERVICE, AND AVOID NEEDLESS EXPENSE NOT COVERED BY THE WARRANTY. READ THE PRODUCT WARRANTY CONTAINED IN THIS MANUAL AND REMEMBER TO FILL OUT AND RETURN TO THE MANUFACTURER ALL RELEVANT WARRANTY CARDS AND CERTIFICATES. SHOULD YOU HAVE ANY QUESTIONS, PLEASE CONTACT YOUR LOCAL DEALER OR REFER TO THE **GETTING SERVICE FOR YOUR WATER HEATER** SECTION OF THIS MANUAL.

SAVE THIS MANUAL FOR FUTURE REFERENCES.

For your records, write the model and serial number here:

Model # _____

Serial # _____



MEMBRE
AUDI

TABLE OF CONTENTS

Safety Information	2
Installation Instructions	3
Location	4
Minimum Clearances	4
Venting	4
Co-axial Flexible Vent Pipe Kit (Vent Kit)	5
Vent kit installation	5
Water Piping	9
Temperature & Pressure-Relief Valve	9
Pressure Build-up in a Water System	9
Filling the Water Heater	10
Gas Connections	11
Installation Instructions for Water Heaters Approved for Space Heating and Potable Water Heating	11
Installation Checklist	14
Operating Instructions	14
Lighting the Water Heater	14
Water Temperature Regulation	15
Out of Fuel	15
General Maintenance	16
Housekeeping	16
Condensation	16
Main Burner & Pilot	16
Water Heater Tank	16
Temperature and Pressure-Relief Valve	16
Venting System Inspection	16
Anode	16
Draining the Water Heater	17
Vacation	17
Getting Service for your Water Heater	17
Replacement Parts	18
Troubleshooting Guide	19
Warranty	22

This water heater meets the FVIR requirements in the standard for water heater.

It is equipped with a sealed combustion chamber and air intake system so it will not use any surrounding air for combustion; it will use combustion air from outside the building where the vent terminal is located. thus it will prevent combustable vapours from igniting outside the water heater in the event that gasoline or other flammable vapours and liquids are improperly stored in the area where the water heater is located.

If flammable vapours are detected:

- **DO NOT** try to light any appliance.
- **DO NOT** touch any electrical switch, **DO NOT** use any phone in your building.
- **From a neighbour's phone, immediately call your gas supplier.**
Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

After the flammable vapours have been evacuated, contact a qualified service technician or the manufacturer for further instructions.

SAFETY INFORMATION

Your safety and the safety of others is extremely important during the installation, operation, and servicing of this water heater. Many safety related messages have been provided in this manual and on your water heater. Always read and obey all safety messages. These messages will point out the potential hazard, tell you how to reduce the risk of injury, and tell you what will happen if the instructions are not followed.



This is the safety alert symbol. This symbol alerts you to potential hazards that can kill or hurt you and others. All safety messages will follow the safety alert symbol and either the word “DANGER” or “WARNING”.



DANGER

Serious injury or death can occur if you do not follow the instructions immediately.



WARNING

Serious injury or death can occur if you do not follow the instructions.



WARNING



FIRE AND EXPLOSION HAZARD Can result in serious injury or death

⚠ Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this or any other appliance. Storage or use of gasoline or other flammable vapours or liquids in the vicinity of this or any other appliance can result in serious injury or death.



WARNING

DO NOT use this water heater if any part has been under water. Immediately call a qualified service technician to inspect the water heater and to replace any part of the control system and any gas control which has been under water. Failure to follow this instruction can result in property damage, personal injury, or death.

INSTALLATION INSTRUCTIONS

IMPORTANT

These instructions have been written as a guide for the proper installation and operation of your water heater, and the manufacturer of this water heater will not accept any liability where these instructions have not been followed. However, for your safety and to avoid damage caused by improper installation, this water heater must be installed by a Certified Licensed Professional, and meet all local codes or, in the absence of local codes, CAN/CSA B149.1, Natural Gas and Propane Gas Installation Code, in Canada, and/or the National Fuel Gas Code, ANSI Z223.1/NFPA 54, in the United States.

Before proceeding with the installation instructions:

- 1) Inspect the water heater and its component parts for possible damage. **DO NOT** install or attempt to repair any damaged component parts. If you detect any damage, contact the dealer where the water heater was purchased or the manufacturer listed on the warranty card.
- 2) Verify that the type of gas being supplied corresponds to that which is marked on the rating plate and gas control valve of the water heater.

Location

This water heater should be located close enough to the outside wall so that it is within the venting requirements listed in these installation instructions and as close as possible to the main use of hot water. This location must not be subject to freezing temperatures. The water heater should be positioned, so that there is easy access to the burner, gas control valve, and drain valve. It must be located close to a suitable free-flowing floor drain. Where a floor drain is not adjacent to the water heater, a suitable drain pan must be installed under the water heater (**see Figure 9**). This drain pan should be at least four (4) inches (10.2 cm) larger than the diameter of the water heater, and at least one (1) inch (2.5 cm) deep, providing access to the drain valve. This pan must be piped to a suitable drain to prevent damage to property in the event of a water leak from the piping, the relief valve, or the water heater.

Sooner or later, all water heaters leak. The manufacturer, based on national building codes, has given the necessary instructions to prevent damage to the building. Under no circumstances is the manufacturer to be held liable for any water damage, in connection with this water heater.

This water heater is approved for installation on either a combustible or non-combustible floor. However, should this water heater be installed directly on carpeting, the carpeting must be protected by a wood or metal panel beneath the water heater. This panel must extend at least three (3) inches (7.6 cm) beyond the width and depth of the water heater. Should the water heater be installed in an alcove or closet, the entire floor area must be covered by the panel.

Minimum Clearances

The minimum clearances from combustible material for this water heater are: Two (2) inches (5.1 cm)

from the sides, zero (0) inches from the rear, four (4) inches (10.2 cm) from the front, one (1) inch from the vent piping, and two (2) inches (5.1 cm) from the direct vent-air intake terminal box (**see Figure 1**).

Venting

DANGER

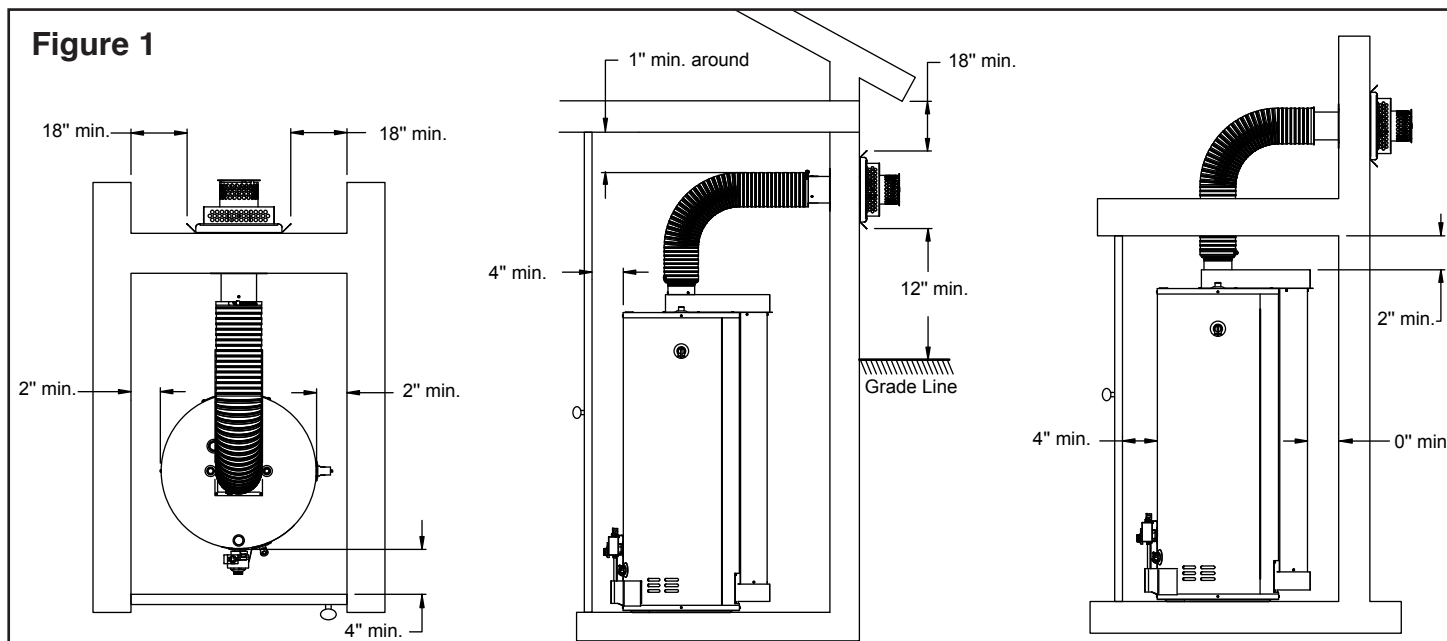
When installing the venting system, make sure to follow all local codes or, in the absence of local codes, CAN/CSA B149.1, Natural Gas and Propane Gas Installation Code, in Canada, and/or the National Fuel Gas Code, ANSI Z223.1/NFPA54, in the United States. Never operate the water heater unless it is properly ventilated to the outdoors and has adequate air supply for proper operation. Failure to properly install the venting system could result in property damage, personal injury, or death.

This water heater is a direct vent gas water heater that draws all of its combustion air from outside of the building and vents all of its combustion gases directly outside of the building. Before installing the vent piping, make sure that the vent system layout has been properly planned. Make sure that the flue baffle has been installed in the flue tube. If the baffle is not present, immediately contact the dealer where the water heater was purchased. Never operate the water heater without the flue baffle installed. Verify that the location of the water heater respects all clearances from combustible material, all venting requirements (**see Figure 1**), and that the vent termination will be installed as specified by all local codes or, in the absence of local codes, CAN/CSA B149.1, Natural Gas and Propane Installation Code, in Canada, and/or the National Fuel Gas Code, ANSI Z223.1/NFPA 54, in the United States (**see Figure 2**).

Note: Make sure to protect the building materials

INSTALLATION INSTRUCTIONS

Figure 1



from degradation by flue gases from the vent termination.

Co-axial Flexible Vent Pipe Kit (Vent Kit)

⚠ WARNING

DO NOT install this water heater if any of the parts are damaged. The vent kit must be properly installed. All horizontal runs of piping must have a minimum rise of 1/4 inch per foot (21 mm/m) of run. It is important to completely seal all the vent kit joints where indicated in these instructions with high temperature silicone sealant. A tube is supplied with every direct vent water heater. Failure to properly install the vent kit can result in property damage, personal injury, or death.

This water heater has been shipped with a complete vent kit. This kit includes:

- A three (3) inch (7.6 cm) inner, five (5) inch (12.7 cm) outer co-axial "Wind-Tamer" vent termination.
- An outer wall mounting plate
- An inner wall back plate
- A length of three (3) inch (7.6 cm) inner, six (6) inch (15.2 cm) outer co-axial flexible vent pipe with reducer installed
- A six (6) inch (15.2 cm) to five (5) inch (12.7 cm) reducer
- Two (2), three (3) inch (7.6 cm) hose clamps
- A six (6) inch (15.2 cm) hose clamp
- A tube of high temperature silicone
- Eight (8) wall anchors
- Eight (8) #10 x 1" screws
- Four (4) washers
- Six (6) 1/2" thread cutting screws

Vent Kit Installation

The following instructions detail the installation of the co-axial flexible vent pipe kit supplied with every water heater.

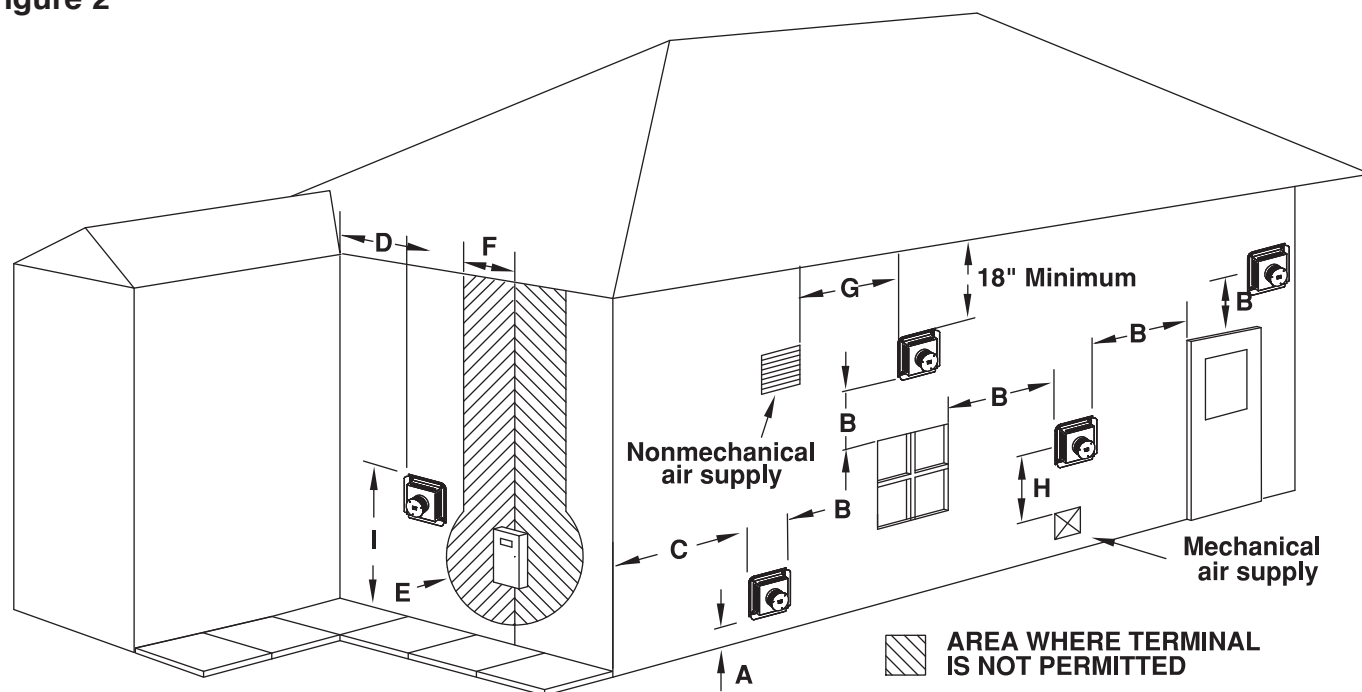
- 1) Place the water heater in it's final position (refer to the **Location and Minimum Clearances** sections for correct positioning requirements) and verify if you are able to install the vent kit in accordance with the specifications illustrated in **Figure 3**.

Note:

- a) The vent kit of this water heater can be installed in any 360° configuration as long as the proper clearances for installation, plumbing, operation, and servicing are maintained (**see Figure 3a**).
 - b) The minimum inner radius for the vent pipe curvature is 11" (27.9 cm) (use the water heater outside radius as reference, **see Figure 3b**).
 - c) The maximum vent pipe curvature is 90° (**see Figure 3c**).
 - d) You can't use both setup #3 and setup #4 on the same vent pipe installation.
- 2) Locate where the vent termination is going to be installed and cut a five and one half (5 1/2) inch (14 cm) diameter clearance hole through the wall (**see Figure 4**).
 - 3) Outside of the building, position the outer wall mounting plate and the termination kit over the center of the wall opening. Mark the hole locations for the mounting screws. Drill 1/4" diameter holes in the wall for the four (4) wall anchors. Install the wall anchors and attach the outer wall mounting plate

INSTALLATION INSTRUCTIONS

Figure 2



The Vent Termination must have a :

	Canadian Installations	US Installations
A) Clearance above grade, veranda, porch, deck, or balcony ¹ .	12 inches (30 cm)	12 inches (30 cm)
B) Clearance to window or door that may be opened.	12 inches (30 cm)	9 inches (23 cm)
C) Clearance to outside corner	*	*
D) Clearance to inside corner.	18 inches (46 cm)	18 inches (46 cm)
E) Clearance to any gas service regulator vent outlet.	3 feet (91 cm)	3 feet (0.91 m)
F) Clearance to each side of center line extended above meter/regulator assembly.	3 feet (91 cm) within a height 15 feet (4.57 m) above the meter/regulator assembly	3 feet (91 cm) within a height 15 feet (4.57 m) above the meter/regulator assembly
G) Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance.	12 inches (30 cm)	12 inches (30 cm)
H) Clearance to a mechanical air supply inlet.	6 feet (1.82 m)	**
I) Clearance above paved sidewalk or paved driveway located on public property.	7 feet (2.13 m)	7 feet (2.13 m)
• Vertical clearance to any unventilated soffit, overhang, or other irregularity located above the terminal within a horizontal distance of 18 inches (46 cm) from the center line of the terminal.	18 inches (46 cm)	18 inches (46 cm)
• Vertical clearance to any ventilated soffit, overhang, or other irregularity located above the terminal within a horizontal distance of 18 inches (46 cm) from the center line of the terminal.	*	*
• Clearance under veranda, porch, deck, or balcony.	Shall not	Shall not
• Clearance to permanently closed window.*		

¹ Make sure to take into consideration the expected snow fall when determining this clearance.

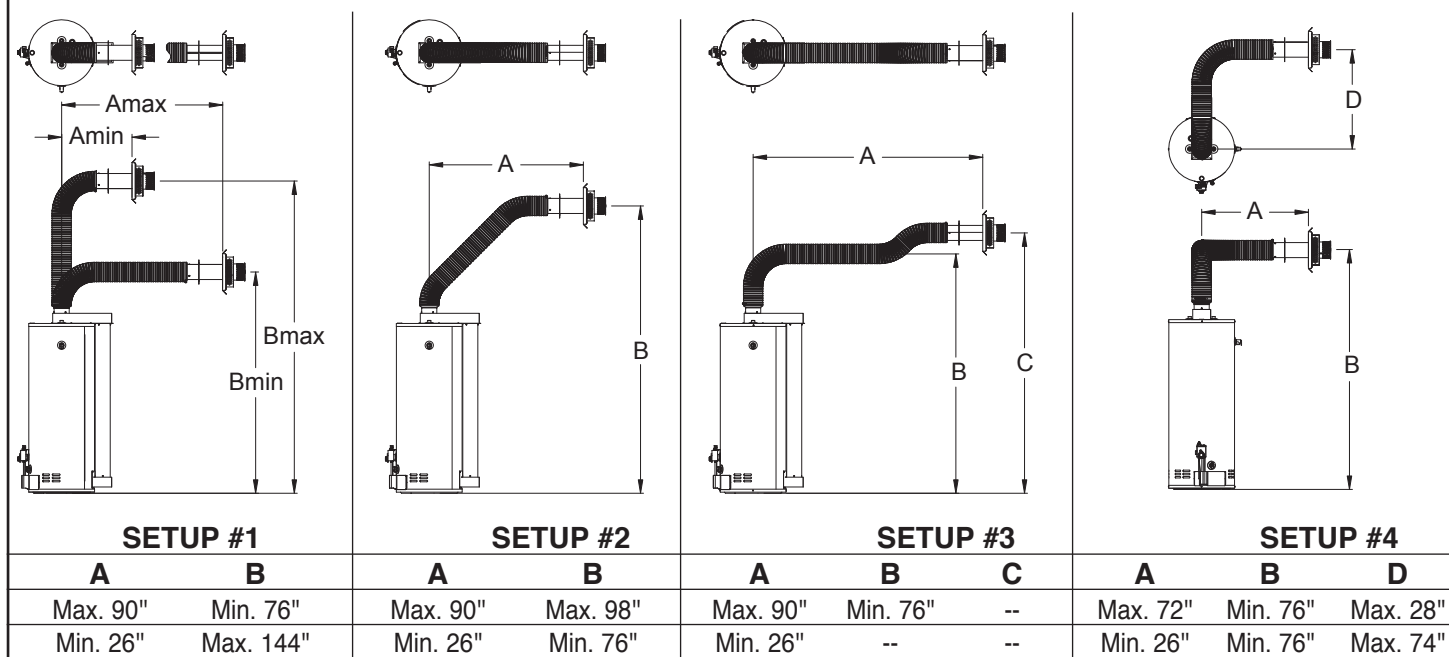
* Clearance in accordance with local installation codes and the requirements of the gas supplier.

** The vent terminal must terminate at least three (3) feet (91cm) above any forced air inlet duct located within ten (10) feet (3.05m).

For Canadian and US installations, the vent shall not terminate above a paved driveway that is located between two single family dwellings and serves both dwellings.

INSTALLATION INSTRUCTIONS

Figure 3

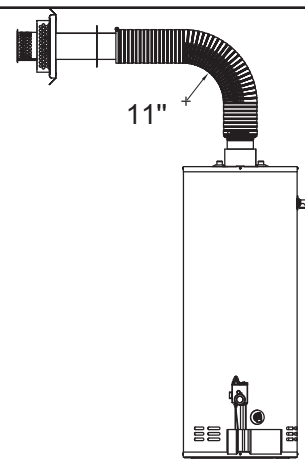


and the termination kit with the four (4) #10 x 1" screws and washers. Make sure that the rain guard and the word "HOT" on the end of the vent-air intake terminal are oriented properly. Caulk the junction of the outer wall mounting plate and the exterior wall with exterior type silicone sealant. (see Figure 4).

- 4) Inside the building, slide the back plate over the 5 inch (12.7 cm) pipe of the termination kit until it is flush with the wall. Mark the hole locations for the mounting screws. Drill 1/4" diameter holes in the wall for the four (4) wall anchors. Install the wall anchors and secure the back plate with the four (4) #10 x 1" screws. (see Figure 5).
- 5) Apply the high temperature sealant (silicone or other material suitable for 315°F [600°C] continuous service) to the 3 inch (7.6 cm) pipe of the termina-

tion kit and the two ends (5 inch (12.7 cm) & 6 inch (15.2 cm)) of the free reducer. Insert the 6 inch (15.2 cm) end of the reducer into the end of the

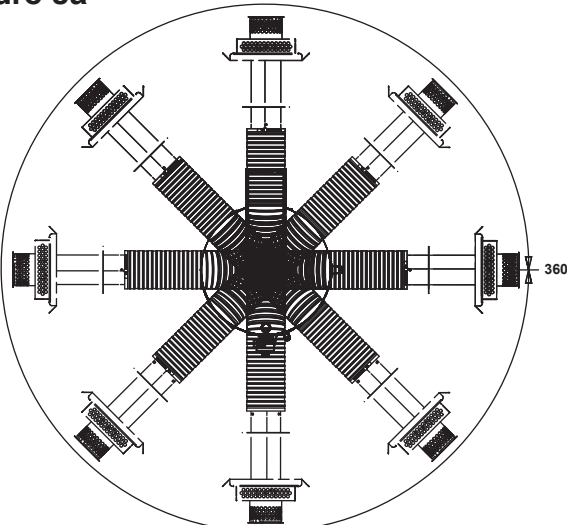
Figure 3b



flexible pipe that does not already have a reducer installed, and secure them together with a six (6) inch (15.2 cm) hose clamp. Pull the 3 inch (7.6 cm) flexible pipe over the 3 inch (7.6 cm) pipe of the termination kit. Secure them together with a three (3) inch (7.6 cm) hose clamp. Insert the 5 inch (12.7 cm) end of the free reducer into the 5 inch (12.7 cm) pipe of the termination kit. Drill three (3) holes, 120° apart, through the 5 inch (12.7 cm) diameter termination kit pipe and reducer, and secure them together with three (3) 1/2" thread cutting screws (see Figure 6).

- 6) At the other end of the flexible pipe, pull the three (3) inch (7.6 cm) and the six (6) inch (15.2 cm) pipe (with reducer already installed) towards the water heater. Make sure to pull the six (6) inch (15.2 cm)

Figure 3a



INSTALLATION INSTRUCTIONS

Figure 3c

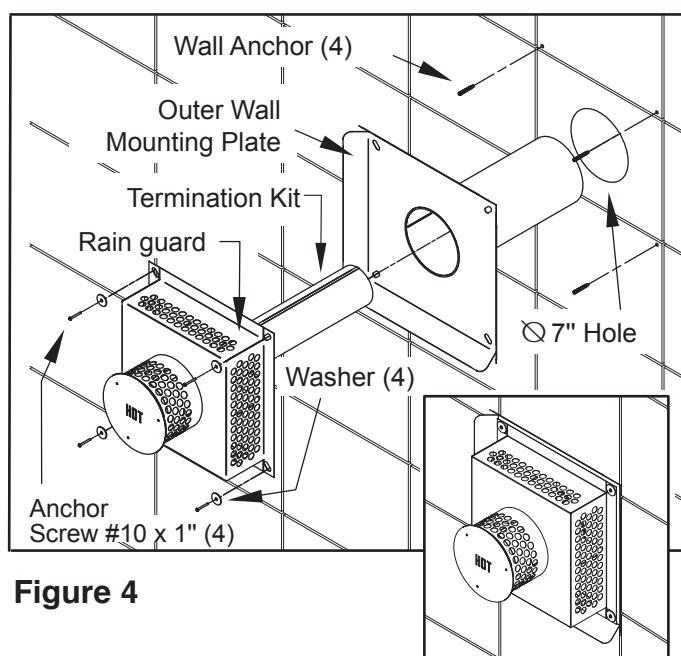
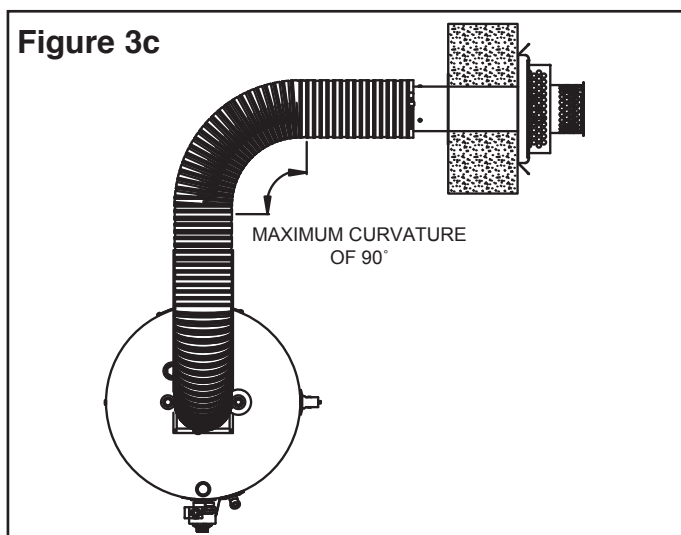


Figure 4

pipe shorter than the three (3) inch (7.6 cm) pipe and leave enough piping over the water heater's center for bending. Make sure that the springs between the three (3) inch (7.6 cm) and six (6) inch (15.2 cm) pipes are equally spaced after the vent pipes have been pulled to the required length and that there are two (2) springs evenly spaced at the bend in the pipe. Bend the flexible pipe towards the water heater maintaining a minimum inside radius of eleven (11) inches (27.9 cm). Apply the high temperature silicone sealant on the water heater flue reducer and on the five (5) inch (12.7 cm) air boot extrusion. Pull the three (3) inch (7.6 cm) flexible pipe over the flue reducer and secure them together with a three (3) inch (7.6 cm) hose clamp. Insert the five (5) inch (12.7 cm) end of the reducer over the five (5) inch (7.6 cm) air boot extrusion. Secure them together with three (3) 1/2" thread cutting screws (see Figure 7).

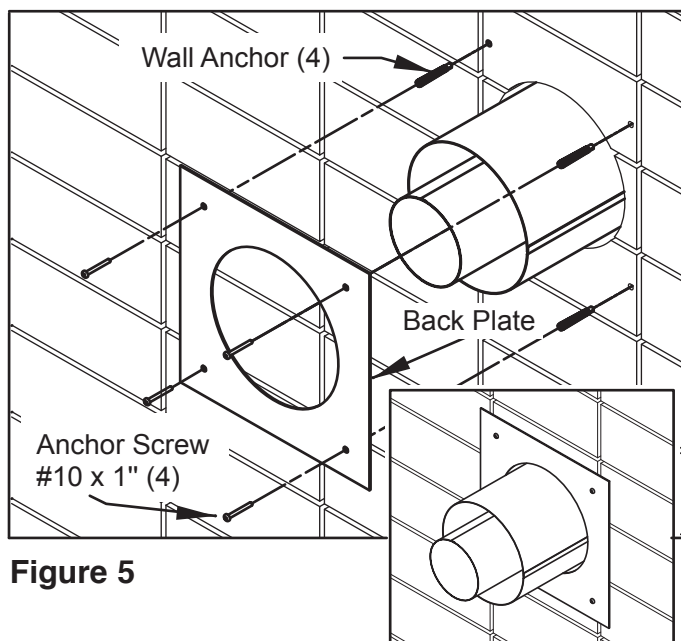


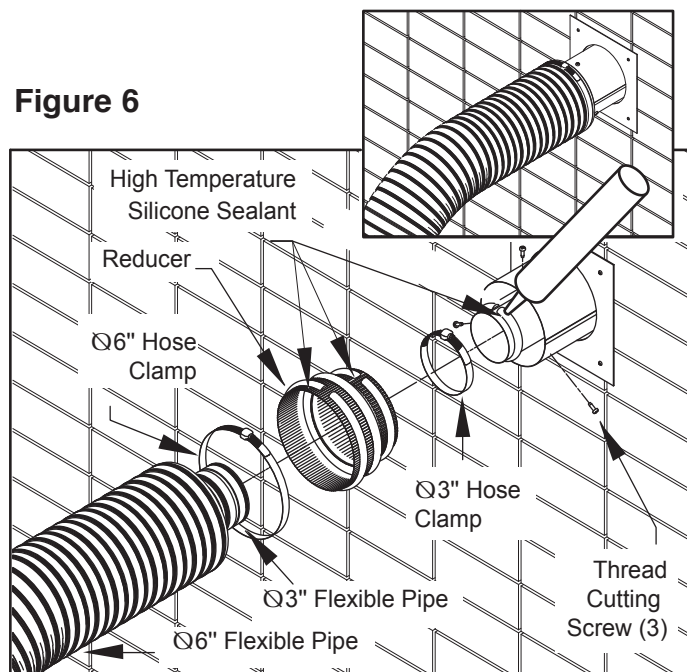
Figure 5

- 7) Use metal hangers to keep the horizontal runs of flexible pipe with a minimum rise of 1/4 inch/foot (21 mm/m) from the water heater to the termination kit (see Figure 8).

WARNING

When the installation is complete, visually inspect the venting system to make sure that all joints are properly connected and all instructions have been followed. Failure to properly install the venting system could result in property damage, personal injury, or death.

Figure 6



INSTALLATION INSTRUCTIONS

Water Piping

Refer to **Figure 9** for a typical installation. Use of this layout should provide a trouble-free installation for the life of the water heater. Before making the plumbing connections, locate the **COLD** water inlet and the **HOT** water outlet. These fittings are both 3/4" N.P.T. male thread. Make sure that the dip-tube is installed in the cold water inlet. Install a shut-off valve close to the water heater in the cold water line. It is recommended that unions be installed in the cold and hot water lines so that the water heater can be easily disconnected, if servicing is required. When assembling the hot and cold piping, use a good food grade of pipe joint compound, and ensure all fittings are tight. It is imperative that open flame is not applied to the inlet and outlet fittings, as heat will damage or destroy the plastic-lined fittings. **This will result in premature failure of the fittings, which is not covered by the warranty.**

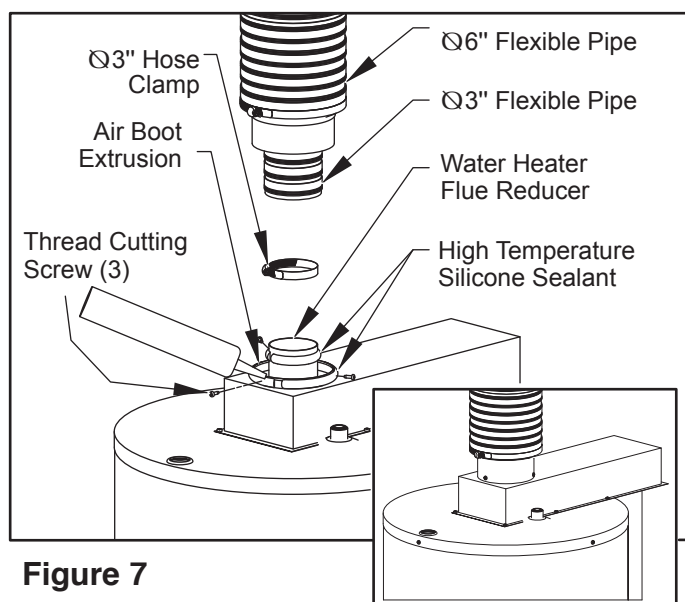


Figure 7

Temperature and Pressure-Relief Valve

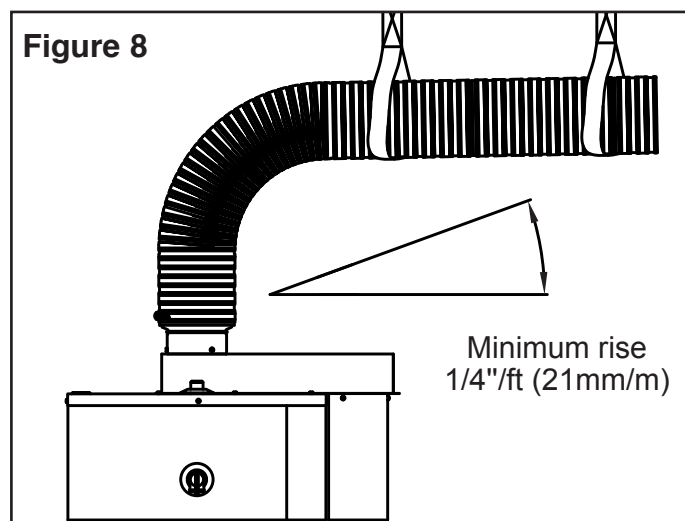


Figure 8

⚠ WARNING

DO NOT plug the temperature and pressure-relief valve or its discharge line. **DO NOT** remove the relief valve. Make sure the relief valve is properly sized for the water heater. If the relief valve continuously discharges water, call a qualified service technician to correct the problem. Failure to follow these instructions can result in property damage, personal injury, or death.

To protect from excessive pressure and/or temperature, the manufacturer has installed a temperature and pressure-relief valve that meets the requirements of the Standard for Relief Valves and Automatic Gas Shut-Off Devices for Hot Water Supply Systems, CSA 4.4, in Canada, and ANSI Z21.22, in the United States. This relief valve has a maximum set pressure that does not exceed the hydrostatic working pressure of the water heater (150 psi = 1,035 kPa) and a BTU/h rating equal to or greater than the input rating, as shown on the water heater rating plate. It should never be plugged or removed from the opening marked for it on the water heater.

If this relief valve should need to be replaced, use only a new temperature and pressure-relief valve. Never install an old or existing relief valve, as it may be damaged or inadequate for the working requirements of the new water heater. This new relief valve must meet all local codes or, at a minimum, the requirements listed above. Never install any other type of valve between the relief valve and the water heater.

A discharge line must be installed into the relief valve.

The discharge line:

- Must not be smaller than the outlet pipe size of the relief valve.
- Must not terminate less than six (6) inches (15.2 cm) and not more than twelve (12) inches (30.5 cm) above a floor drain.
- Must not be restricted in any way. Do not thread, cap, or in any way restrict the end of this outlet.
- Must be of a material capable of withstanding 210°F (99°C) without distortion.
- Must be installed to allow complete drainage of the relief valve and discharge line.
- must terminate at an adequate free-flowing drain.

Pressure Build-up in a Water System

When the water heater operates, the heated water expands creating a pressure build-up. This is a natural function and is one of the reasons for installing a temperature and pressure-relief valve.

INSTALLATION INSTRUCTIONS

If the cold water supply line has a built-in water meter, check valve, or pressure-reducing valve, a suitable expansion tank must be installed to prevent pressure build-up or water hammer effect. Otherwise, the warranty is void (**see Figure 9**). An indication of pressure build-up is frequent discharges of water from the relief valve. If the relief valve discharges water on a continual basis, it may indicate a malfunction of the relief valve, and a qualified service technician must be called to have the system checked, and the problem corrected.

Filling the Water Heater



NEVER operate the water heater unless it is completely filled with water. Failure to follow this instruction can result in premature failure of the water heater that is not covered by the warranty.

Check that all of the water piping connections have been made. To fill the water heater:


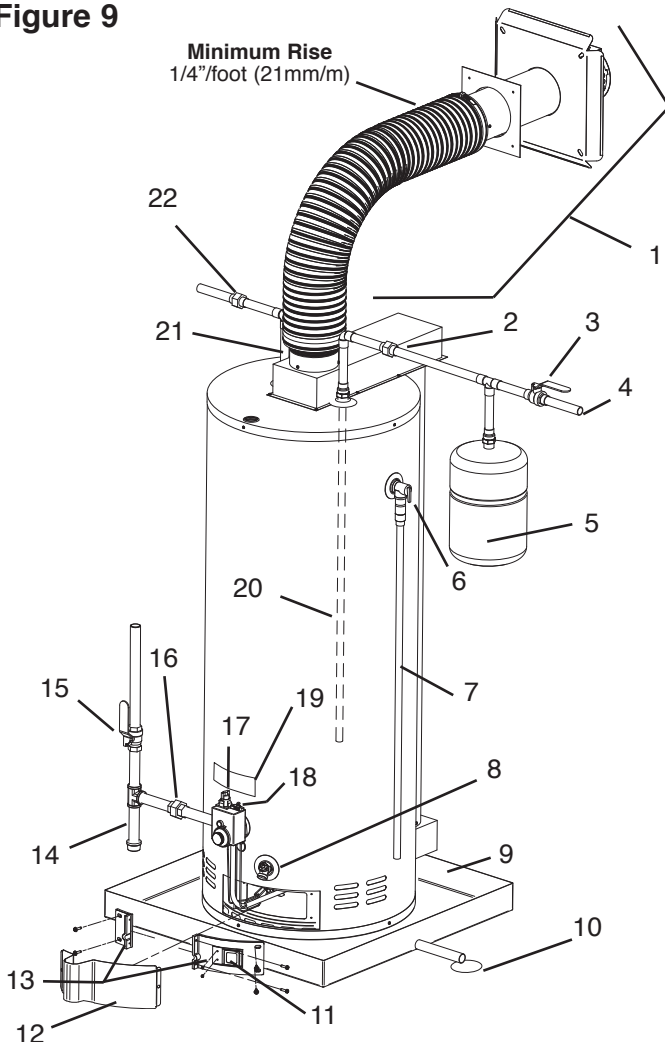
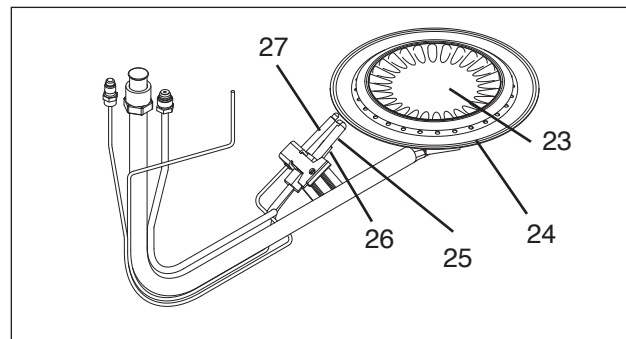
- 1) Make sure that the water heater drain valve is closed by inserting a flat head screwdriver into the slot on the head of the drain valve and turning the knob clockwise  .
- 2) Open the cold water supply manual shut-off valve. This valve must remain open, as long as the water heater is in use. **NEVER** operate the water heater with the cold water supply manual shut-off valve closed.
- 3) To make sure the water heater is completely full of water, open hot water faucets to let the air out of the water heater and plumbing system. Leave the faucets open until a constant flow of water is obtained.
- 4) Check all of the plumbing connections to make sure there are no leaks.

Figure 9



- | | |
|--|--------------------------------------|
| 1) Co-axial flexible vent pipe kit | 14) Drip leg (Sediment trap) |
| 2) Union | 15) Gas supply manual shut-off valve |
| 3) Cold water manual shut-off valve | 16) Union |
| 4) Cold water inlet | 17) Gas control valve |
| 5) Expansion tank | 18) Piezo igniter |
| 6) Temperature & pressure-relief valve | 19) Rating plate |
| 7) Overflow tube | 20) Dip tube |
| 8) Drain valve | 21) Hot water outlet |
| 9) Drain pan | 22) Union |
| 10) Free-flowing floor drain | |
| 11) Sight glass | 23) Burner |
| 12) Outer access door | 24) Burner orifice |
| 13) Inner access doors | 25) Pilot |
| | 26) Electrode |
| | 27) Thermocouple |



INSTALLATION INSTRUCTIONS

Gas Connections

WARNING

DO NOT attempt to use this water heater with any gas other than the type of gas shown on the water heater rating plate. Failure to follow this instruction can result in property damage, personal injury, or death.

The gas piping must be installed as indicated in **Figure 9**. For the correct size of piping for this water heater, consult CAN/CSA B149.1, National Gas and Propane Installation Codes (in Canada) and/or the National Fuel Gas Code, ANSI Z223.1/NFPA 54, in the United States. Only new piping with cleanly cut threads may be used, together with a suitable sealing compound that is approved for natural and propane gases. It is mandatory that a readily accessible manual shut-off valve be installed in the gas supply line. The gas supply manual shut-off valve must be close to the water heater. A drip leg (sediment trap) must be installed in the gas line ahead of the gas control valve to prevent dirt from entering it. A union must be installed between the gas control valve and the gas supply manual shut-off valve for easy maintenance of the water heater.

WARNING

NEVER use an open flame to test for gas leaks. A fire or explosion could occur resulting in property damage, personal injury, or death.

The water heater and its gas connection must be leak tested before placing the appliance into operation. To leak test the system:

- 1) Turn on the manual gas shut-off valve near the water heater.
- 2) Use a soapy water solution to test all connections and fittings for leaks. Bubbles indicate a gas leak.
- 3) Correct all leaks.

Make sure that the inlet pressure to the water heater does not exceed 1/2 psi (3.5 kPa) for both natural and propane gases. Pressures in excess of 1/2 psi (3.5 kPa) can damage the gas control valve, resulting in a fire or explosion from leaking gas. For purposes of adjustment, the minimum inlet pressure is indicated on the water heater rating plate.

If any pressure testing of the gas line is undertaken at test pressures in excess of 1/2 psi (3.5 kPa), the water heater and its gas supply manual shut-off

valve must be disconnected from the gas supply piping system, and the end of the pipe sealed with a female cap. If the testing is to be undertaken at a test pressure less than 1/2 psi (3.5 kPa), the gas supply manual shut-off valve must be closed.

WARNING

A high altitude orifice **MUST BE** installed for water heaters operating above 2,000 feet (610 m). Failure to follow this instruction can result in property damage, personal injury, or death.

Installation Instructions for Water Heaters Approved for Space Heating and Potable Water Heating (see figure 10)

A water heater cannot be used for space heating only. When using a water heater for space and potable water heating, the instructions provided in this manual and with the air-handling unit must be respected and, **in particular**, the following:

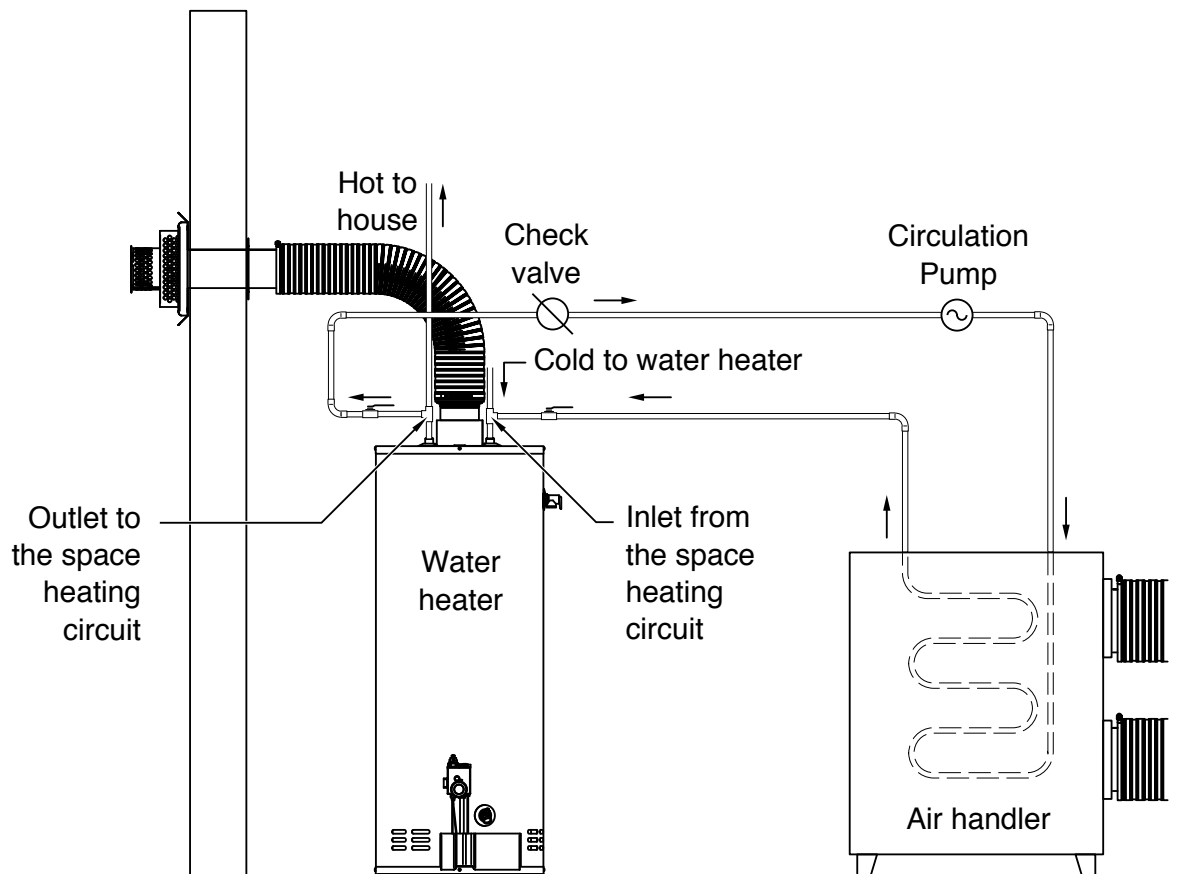
- 1) All piping and components that are used in the system must be of a nonferrous type suitable for potable water. This also applies to any sealant used.
- 2) When used as a dual purpose water heater, it must not be connected to any system that has been previously used for non-potable water heating. This includes any piping because, in all probability, existing piping would have been, in the past, treated with chemicals for cleaning or sealing the system.
- 3) If this water heater is to be used for space heating, make sure that all safety codes are respected. Pay special attention to safety valve pressure and expansion tanks.
- 4) Do not use toxic chemicals to clean the potable water heating system.
- 5) Where water temperature in excess of 140°F (60°C) is required for a space heating application, a mixing valve must be installed in the potable side of the system. This will temper the water, and reduce the risk of scalding.
- 6) If the incoming water line to the heater is equipped with a check valve, water meter, or pressure-reducing valve, an expansion tank must be installed in the system. This will prevent weeping from the water heater relief valve and premature failure of the heater due to expansion of the water during the heating cycle.

INSTALLATION INSTRUCTIONS

- 7) Before acquisition of a water heater for space heating application, it is necessary to have the area of intended use sized by a qualified technician. This will ensure that an adequate water heating capacity will be available for both heating and potable water supply, and that the application will meet all local codes and public utility requirements.

Note: It is good practice to oversize the water heater, to ensure that all of the potential hot water requirements are available.

Figure 10



INSTALLATION INSTRUCTIONS

Installation Checklist

Location

- Is the water heater located within the venting requirements and close to the main use of hot water? ☐
- Is the water heater protected from freezing temperatures? ☐
- Has a drain pan been installed and piped to a free-flowing drain? ☐
- Is the gas control valve accessible for servicing? ☐
- Have clearances from combustible materials been observed? ☐

Combustion and Ventilation Air Supply

- Is the area around the water heater clean and properly ventilated? ☐
- Is the fresh air supply free of corrosive elements and flammable vapours? ☐
- Has the vent termination been checked to make sure that it is not block or obstructed in any way? ☐

Venting

- Is the flue baffle installed in the flue tube? ☐
- Have all horizontal runs of vent pipe been installed with a minimum rise of 1/4 inch per foot (21 mm/m) of run? ☐
- Have all of the vent-air intake joints been sealed with high temperature silicone sealant? ☐
- Has the venting been supported at the proper intervals with metal hangers? ☐

Water Piping

- Is the dip-tube installed in the cold water inlet? ☐
- Has a temperature and pressure-relief valve been installed? ☐
- Does this valve have a discharge line installed, and is it piped to a free-flowing drain? ☐
- Have all the plumbing connections been properly installed, and are they leak free? ☐
- Is the water heater full of water? ☐

Gas Connections

- Is the gas supplied to the water heater the same type as indicated on the water heater rating plate? . . . ☐
- Has the gas line been installed with a manual shut-off valve, union, and drip leg? ☐
- Is the gas piping large enough and made of an approved material? ☐
- Have all connections been made with an approved joint compound? ☐
- Has the gas piping been tested for leaks with a soap and water solution? ☐

OPERATING INSTRUCTIONS



Lighting the Water Heater

Before lighting or re-lighting your water heater, make sure that you have read and understood all of the instructions and warnings in this manual and on your water heater. If you have any questions about lighting your water heater, immediately contact a qualified installer, service agency, or the gas supplier.

Lighting Instructions

WARNING

DO NOT light this water heater if:

- It is not full of water.
- The gas supplied does not match the type listed on the rating plate.
- The sight glass or burner access door gasket has been damaged or broken.
- Gasoline or other flammable vapours and liquids have been stored in the vicinity of the water heater.

Failure to follow these instructions can result in property damage, personal injury, or death.

FOR YOUR SAFETY, READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury, or death.

A. This appliance has a pilot which must be lit by a piezo-electric spark gas ignition system. **DO NOT** open the inner door and attempt to light the pilot by hand.

B. **BEFORE LIGHTING**, 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.
- From a neighbour's phone, immediately call your gas supplier. Follow the gas supplier's instructions.

- If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. **DO NOT** use this water heater if any part has been under water. Immediately call a qualified service technician to inspect the water heater and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

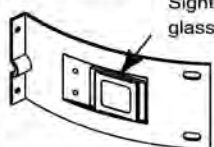
1. **STOP!** Read the safety information above on this label.
2. Turn the temperature dial clockwise  to the "PILOT LIGHTING" position.
3. Depress slightly and turn the gas control knob clockwise  to the "OFF" position.




Gas control knob shown in "OFF" position

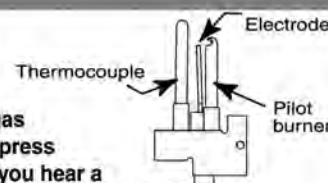


Note: The gas control knob cannot be turned from "PILOT" to "OFF" unless the knob is depressed slightly. Do not force.



4. Wait five (5) minutes to clear out any gas. If you then smell gas, **STOP!** Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
5. Remove the outer access door.
6. Locate the piezo igniter button.
7. Look into the sight-glass window on the inner access door to view the pilot.



8. Turn the gas control knob counterclockwise  to the "PILOT" position.
9. Depress and hold down the gas control knob. Immediately depress the piezo igniter button until you hear a "click" sound, then release. Continue to hold down the gas control knob for approximately one (1) minute after the pilot is lit. If the pilot does not light, continue to depress and release the piezo igniter button. Release the gas control knob, and it should pop back up. The pilot should remain lit. If it goes out, repeat steps 3 through 8.
 - If the knob does not pop up when you release it, stop and immediately call a qualified service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control knob clockwise  to the "OFF" position and call a qualified service technician or the gas supplier.
10. Replace the outer access door.
11. Turn the gas control knob counterclockwise  to the "ON" position.
12. Turn the temperature dial to the desired setting.



TO TURN OFF GAS TO APPLIANCE

1. Turn the temperature dial clockwise  to the "PILOT LIGHTING" position.
2. Depress slightly and turn the gas control knob clockwise to  the "OFF" position.



OPERATING INSTRUCTIONS

Water Temperature Regulation



WARNING

The higher the setting, the greater the risk of scalding. Hot water can cause third degree burns in under one (1) second at 150°F (65°C), in six (6) seconds at 140°F (60°C) and in thirty (30) seconds at 130°F (54°C). In households where there are children, physically challenged individuals, or elderly persons, mixing valves for point of use are necessary as a means of reducing the scalding potential of hot water.

The gas control valve is factory-adjusted to its lowest temperature. The desired water temperature can be selected by rotating the temperature dial on the front of the gas control. Turn the temperature dial clockwise  to decrease the temperature, or counterclockwise  to increase the temperature. The reference mark on the temperature dial, indicated by a large rectangle, represents 130°F (54°C) (see figure 10). Each mark to the left and right of

this reference mark indicates a temperature change of approximately 10°F (6°C).

When hot water is drawn from the tank in frequent short bursts, a condition known as “stacking” is created. “Stacking” is the result of increased cycling of the burner and can produce very hot water temperatures at the hot water outlet. Always remember to check the hot water coming out of any faucet with your hand before use. This will reduce the risk of scalding-related injury.

The gas control valve is equipped with an energy cut-off (E.C.O.). Should the temperature of the water exceed 194°F (90°C), the E.C.O. will shut off the gas supply to the water heater. If the E.C.O. has tripped, the gas control valve must be replaced immediately by a qualified service technician.

WARNING

Should overheating occur or the gas supply fail to shut off, close the gas supply manual shut-off valve. Failure to follow this instruction can result in property damage, personal injury, or death.

Out of Fuel

If your water heater should run out of gas, proceed as follows:


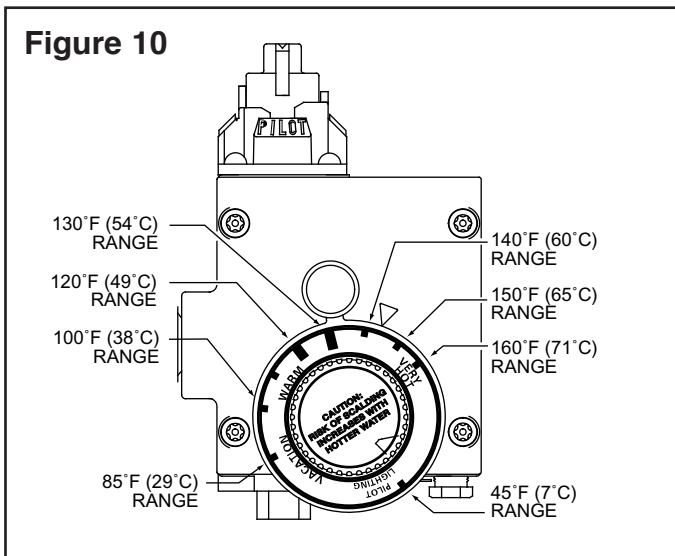
- 1) Close the gas supply manual shut-off valve.
- 2) Depress slightly and turn the gas control knob clockwise  to the “OFF” position.
- 3) Once the gas supply has been re-established, proceed to the **Lighting Instructions**.

Figure 10



GENERAL MAINTENANCE

Housekeeping

WARNING

DO NOT store or use gasoline or other flammable vapours and liquids around the water heater.

DO NOT block or, in any way, restrict the flow of fresh air or combustion gases through the vent-air intake terminal.

DO NOT put or store any objects on the top of the water heater or vent-air intake system.

Failure to follow these instructions can result in property damage, personal injury, or death.

Condensation

As moisture from the products of combustion comes into contact with the cold surface of the inner tank, it may condense. This situation will usually occur:

- 1) when the water heater is filled with cold water for the first time.
- 2) if the water heater has been undersized.
- 3) when large amounts of hot water are drawn from the water heater in a short period of time, and the refill water is very cold.

Due to the high-efficiency rating of this gas-fired water heater, it may produce more condensation than older models. Condensation forming on the flue tube will drop on the burner making a “sizzling” sound. In extreme cases, the condensation may even extinguish the pilot flame. This condition is not uncommon and must never be misinterpreted as a leaking tank. It will disappear once the water becomes heated.

Because of the large amounts of water that can condense, it is very important that a drain pan be installed under the water heater (**refer to Figure 9**). Under no circumstances is the manufacturer to be held liable for any water damage, in connection with this water heater. If the problem does not go away and water continues to drip after the water heater has heated up, check all of the plumbing connections to make sure they are not leaking.

Main Burner & Pilot

Every three (3) months check the main burner and pilot flame. Remove the outer access door and look through the sight glass to examine the flames. A soft blue flame indicates proper gas combustion. A yellow tipped flame indicates poor combustion.

WARNING

DO NOT remove the inner access door at any time. If the combustion chamber must be accessed to clean the burner assembly, a qualified service technician must be called. Failure to follow these instructions can result in property damage, personal injury, or death.

Water Heater Tank

Drain a pail of water through the drain valve at least once a year. This will remove excess sediment from the bottom of the tank. This sediment, if allowed to accumulate, will reduce the efficiency and the life of the tank.

Temperature and Pressure-Relief Valve

Manually operate the temperature and pressure-relief valve at least once a year, standing clear of the outlet to avoid being burned. Lift and release the operating lever on the valve to make it operate freely. If, after manually operating the valve, it fails to completely reset itself and continues to discharge water, replace it with a new one.

Venting System Inspection

The venting system must be thoroughly inspected once a year. Check that the vent-air intake terminal outside of the building is not blocked or damaged in any way. Remove any accumulation of dirt, dust or any other material that may restrict the flow of combustion and ventilation air. Check the venting system to make sure that all of the connections are securely fastened, and that all of the joints are properly sealed. If any part of the venting system is damaged, it must be replaced by a qualified service technician.

Anode

This water heater is equipped with an anode that is designed to prolong the life of the glass-lined tank. The anode is slowly consumed, protecting the glass-lined tank from corrosion. The anode should be checked every two (2) years. If more than half of the anode has been consumed, it should be replaced. Instructions on how to change the anode can be obtained from the manufacturer.

The life expectancy of the water heater is reduced where a water softener is introduced to fight hard water, because the sodium salts added by a softener make this water extremely conductive. In these conditions, the anode is consumed more rapidly and should be verified every year.

GENERAL MAINTENANCE




In certain water conditions, the anode will react with the water, producing discoloured or smelly water. The most common complaint is hot water that smells like rotten eggs. This phenomenon is the result of the reaction between the anode and hydrogen sulfide gas dissolved in the water, which occurs frequently in well systems. This problem can usually be eliminated or reduced by changing the anode to a type more suitable for these conditions (aluminum anode) and by chlorinating the water heater and plumbing system. If the problem persists, special filtration equipment may be required. Under no circumstances is the anode to be removed from the water heater on a permanent basis. **Removal of the anode will lead to premature failure of the water heater and void the warranty.**

WARNING

Hydrogen gas can be produced in a hot water system that has not been used for a long period of time (generally two [2] weeks or more). **HYDROGEN GAS IS EXTREMELY FLAMMABLE.** It is highly recommended to open the hot water faucet in the kitchen for several minutes before you use any electrical appliances connected to the hot water system, such as a dishwasher or washing machine. If hydrogen gas is present, there will be an unusual sound, such as air escaping through the pipe, as the hot water faucet is opened. **DO NOT** smoke or introduce an open flame near the faucet when it is opened.

Draining the Water Heater

To completely drain the water heater:

- 1) Turn the temperature dial clockwise  to the "Pilot Lighting" position.
- 2) Rotate and partially depress the gas control knob clockwise  to the "OFF" position.
- 3) Shut off the gas supply to the water heater by closing the manual shut-off valve.
- 4) Close the cold water supply to the water heater by closing the cold water supply valve.
- 5) Connect one end of a garden hose to the water heater drain valve and put the other next to a free flowing drain.
- 6) Open the drain valve by inserting a flat head screwdriver into the slot on the head of the drain valve and turning the knob counterclockwise .
- 7) Open a hot water faucet to allow air into the system.

Vacation

If you are planning a vacation or other prolonged absence, it is highly recommended to shut off the gas supply and the cold water supply to the water heater. This will save energy, protect against property damage in the event the water heater leaks, and prevent the build-up of hydrogen gas. If the water heater and piping are exposed to freezing temperatures, they should both be drained.

Remember to check the water heater thoroughly after it has been shut off for an extended period of time before putting it back in operation. Make sure that the water heater is completely full of water, and that the cold water supply manual shut-off valve is open, before lighting the burner.

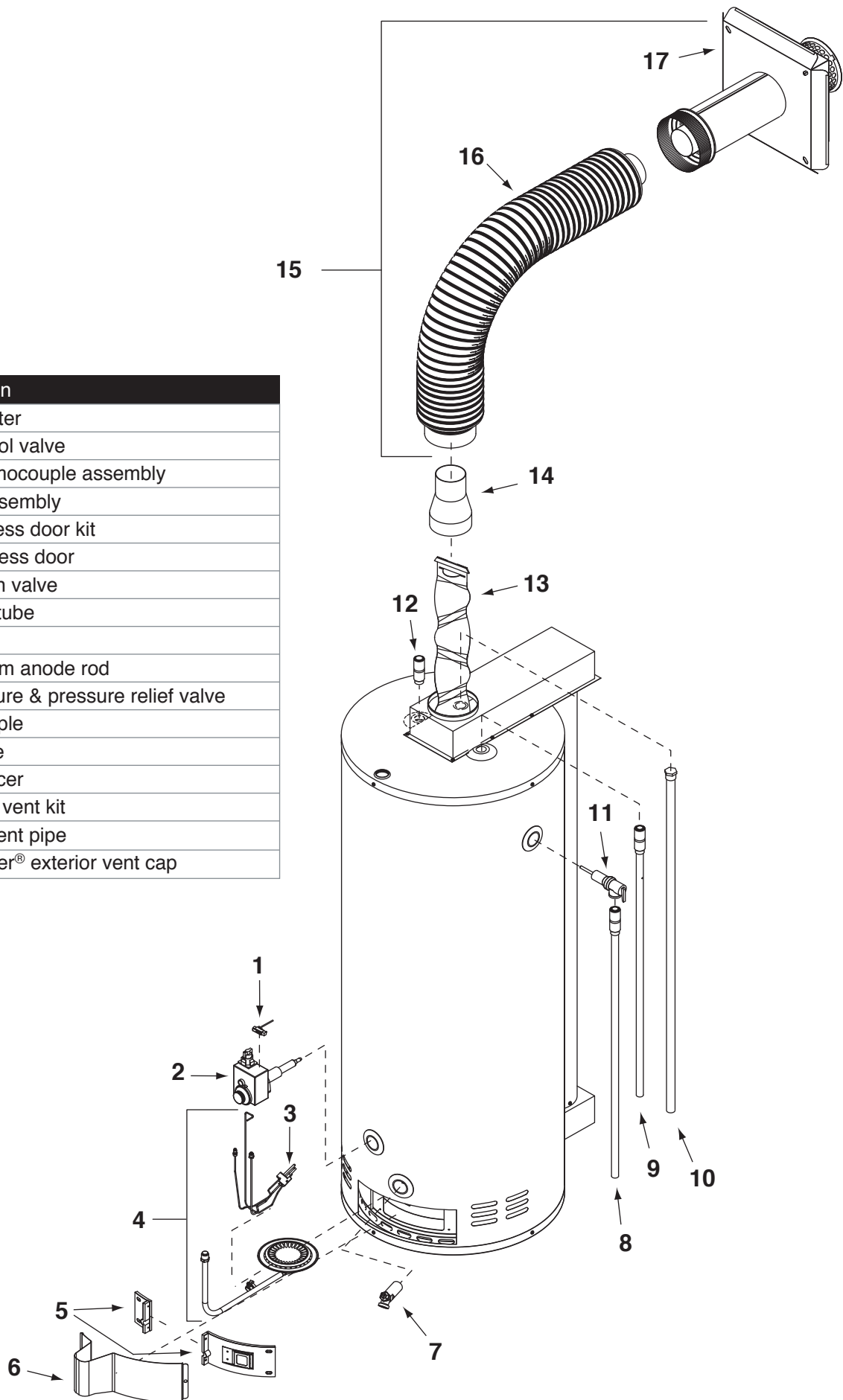
Getting Service for your Water Heater

If you are having problems with your water heater, follow these three easy steps:

- 1) Consult the Troubleshooting Guide contained in this manual (**see Page 18**). It lists the most common problems experienced with your gas-fired water heater. The solutions you find listed may provide a quick and simple solution to your problem and save you time and money.
- 2) If the solution listed in the Troubleshooting Guide does not solve the problem or if your particular problem is not listed in the guide, contact the installer of the water heater, or the local gas utility.
- 3) If you still cannot solve the problem, contact the manufacturer's Customer Service Department by e-mail at **service@giantinc.com** or by telephone at **1-800-363-9354**. To help serve you in a quick and efficient manner, **always have the following information ready:**
 - a) **Model number.**
 - b) **Serial number.**
 - c) **Date of installation.**
 - d) **Where the water heater was purchased.**
 - e) **Complete address where the water heater is installed.**
 - f) **A description of the problem.**

REPLACEMENT PARTS

I.D.	Description
1	Piezo igniter
2	Gas control valve
3	Pilot/thermocouple assembly
4	Burner assembly
5	Inner access door kit
6	Outer access door
7	Brass drain valve
8	Overflow tube
9	Dip tube
10	Magnesium anode rod
11	Temperature & pressure relief valve
12	Outlet nipple
13	Flue baffle
14	Flue reducer
15	Complete vent kit
16	Flexible vent pipe
17	Wind-tamer® exterior vent cap



TROUBLESHOOTING GUIDE

CONDITION	CAUSE	REMEDY
The burner will not ignite.	No gas.	Check with gas utility company.
	Dirt in gas line.	Notify utility. Install drip leg in gas line.
	Pilot line clogged.	Clean. Check for source of trouble and correct.
	Main burner line clogged.	Clean. Check for source of trouble and correct.
	Defective thermocouple.	Replace with new thermocouple.
	Defective gas control valve.	Replace with new gas control valve.
	Gas control valve set too low.	Turn temperature dial to desired temperature.
The burner flame floats and lifts off ports.	High gas pressure.	Check with gas utility company.
	Orifice too large.	Replace with correct orifice.
	Flue clogged.	Clean. Check for source of trouble and correct.
The burner flame is yellow and lazy.	Insufficient secondary air.	Check that the vent-air intake terminal is not blocked.
	Flue clogged.	Clean. Check for source of trouble and correct.
	Main burner line clogged.	Clean. Check for source of trouble and correct.
The burner flame is too high.	Insufficient secondary air.	Check that the vent-air intake terminal is not blocked.
	Orifice too large.	Replace with correct orifice.
	Defective gas control valve.	Replace with new gas control valve.
The flame burns at the orifice.	Low gas pressure.	Check with gas utility company.
	Defective gas control valve.	Replace with new gas control valve.
The pilot will not light or remain lit.	No gas.	Check with gas utility company.
	Dirt in gas line.	Notify utility. Install dirt leg in gas line.
	Pilot line clogged.	Clean. Check for source of trouble and correct.
	Loose thermocouple connection.	Tighten with fingers then take 1/4 turn with wrench.
	Defective thermocouple.	Replace with new thermocouple.
	Gas control valve E.C.O. has tripped.	Replace with new gas control valve.
	Defective igniter.	Replace igniter assembly.
High operating costs.	Gas control valve set too high.	Turn temperature dial to desired temperature.
	Sediment or lime in tank.	Drain. Check to see if water treatment is necessary.
	Water heater is undersized.	Install size of water heater that meets demand.
	Wrong piping connections.	Correct piping, dip tube must be in cold inlet.
	Leaking faucets.	Repair faucets.
	Gas leaks.	Check with gas utility company. Repair at once.
	Wasted hot water.	Advise consumer.
	Long runs or exposed piping.	Insulate piping.
	Hot water piping on outside wall.	Insulate piping.

TROUBLESHOOTING GUIDE

CONDITION	CAUSE	REMEDY
Insufficient hot water.	<u>Low gas pressure.</u>	<u>Check with gas utility company.</u>
	<u>Wrong piping connections.</u>	<u>Correct piping, dip tube must be in cold inlet.</u>
	<u>Sediment or lime in tank.</u>	<u>Drain. Check to see if water treatment is necessary.</u>
	<u>Water heater is undersized.</u>	<u>Install the size of water heater that meets the demand.</u>
	<u>Gas control valve set too low.</u>	<u>Turn temperature knob to desired temperature.</u>
	<u>Leaking faucets.</u>	<u>Repair faucets.</u>
	<u>Wasted hot water.</u>	<u>Advise consumer.</u>
	<u>Long runs or exposed piping.</u>	<u>Insulate piping.</u>
	<u>Hot water piping on outside wall.</u>	<u>Insulate piping.</u>
Slow hot water recovery.	<u>Insufficient secondary air.</u>	<u>Check that the vent-air intake terminal is not blocked.</u>
	<u>Low gas pressure.</u>	<u>Check with gas utility company.</u>
	<u>Gas control valve set too low.</u>	<u>Turn temperature dial to desired temperature.</u>
	<u>Improper calibration.</u>	<u>Replace gas control valve.</u>
	<u>Flue clogged.</u>	<u>Clean. Check for source of trouble and correct.</u>
	<u>Water heater is undersized.</u>	<u>Install size of water heater that meets demand.</u>
	<u>Wrong piping connection.</u>	<u>Correct piping, dip tube must be in cold inlet.</u>
	<u>Wasted hot water.</u>	<u>Advise consumer.</u>
Leaking water.	<u>Poorly sealed, hot or cold water connections, gas control valve threads, relief valve, or drain valve.</u>	<u>Tighten threaded connections.</u>
	<u>Leakage from plumbing system or other appliances.</u>	<u>Inspect plumbing system and other appliances.</u>
	<u>Condensation.</u>	<u>Refer to Condensation.</u>
Water drips from the relief valve.	<u>Heater stacking.</u>	<u>Lower gas control valve setting.</u>
	<u>Excessive water pressure.</u>	<u>Install a pressure-reducing valve.</u>
	<u>Thermal expansion in a closed water system.</u>	<u>Install an expansion tank.</u>
	<u>Improperly seated valve.</u>	<u>Check relief valve works properly and replace if necessary.</u>
The gas control valve fails to shut-off.	<u>Defective gas control valve.</u>	<u>Replace with new gas control valve.</u>
	<u>Improper calibration.</u>	<u>Replace gas control valve.</u>

TROUBLESHOOTING GUIDE

CONDITION	CAUSE	REMEDY
Condensation.	Water heater filled for first time.	Let water heater warm up. Problem should go away. If it persists, check all plumbing connections for leaks.
	Heavy draws of hot water with very cold refill water.	Let water heater warm up. Problem should go away. If it persists, check all plumbing connections for leaks.
	Water heater is undersized.	Install size of water heater that meets demand.
Combustion .	Insufficient secondary air.	Check that the vent-air intake terminal is not blocked.
	Flue clogged.	Clean. Check for source of trouble and correct.
Smoking and carbon formation (sooting).	Insufficient secondary air.	Check that the vent-air intake terminal is not blocked.
	Low gas pressure.	Check with gas utility company.
	Burner flame yellow, lazy.	Refer to <i>The burner flame is yellow and lazy.</i>
	Flue clogged.	Clean. Check for source of trouble and correct.
	Defective gas control valve.	Replace with new gas control valve.
The pilot flame is too small.	Low gas pressure.	Check with utility.
	Pilot line or orifice clogged.	Clean. Check for source of trouble and correct.
Smelly water.	High sulfate or mineral content in water.	Change magnesium anode to an aluminum anode and bleach tank.

STANDARD BASIC LIMITED WARRANTY

ON RESIDENTIAL GAS WATER HEATERS

GENERAL

The manufacturer warrants that, subject to verification of a warranty claim within the warranty period as described below, it will take the necessary corrective action to either repair or replace a water heater or component part which is determined to be defective in material or workmanship subject to the terms and conditions outlined in this document. Further, any replacement water heater or component part supplied under warranty will carry only the unexpired portion of the original water heater's warranty. The number of replacement water heaters is limited to one (1) per original unit purchased. If due to some extremely unusual circumstance, a replacement water heater or component part is found by our inspection & testing department to be defective, another heater or component part will be supplied to fulfill the obligation of the warranty of the original heater.

THE INNER TANK

If the inner tank fails within "SIX (6) years after the date of the original installation, a replacement water heater will be provided to the party from whom the unit was originally purchased. If the water heater is installed in other than a single family dwelling, the tank warranty is limited to ONE (1) year. If an exact replacement is not available, the manufacturer reserves the right to furnish a comparable model water heater; however, a surcharge will be applied for any additional component(s) incorporated in the replacement water heater. The warranty reply card must be completed and sent back to the manufacturer within forty-five (45) days of the installation date. If said warranty card is not returned, the date indicated on the model serial plate will prevail.

COMPONENT PARTS

If any component part is found to be defective within ONE (1) year from the date of original installation, provided said defective part is an in-house factory made piece or an original factory approved OEM piece, the manufacturer will furnish a replacement part after the receipt and testing of the part claimed to be defective.

THIS WARRANTY WILL NOT APPLY

- 1) To defects or malfunctions resulting from failure to properly install, operate, or maintain the unit in accordance with the printed instructions.
- 2) If the installation does not conform to CSA &/or ETL Standards as well as any applicable national or local building codes.
- 3) To any damage or failure caused by abuse, accident, fire, floods, freezing, or other acts of God.

- 4) To any damage or failure caused by operating the heater without an approved pressure & temperature relief valve having been installed.

- 5) To any damage or failure caused by operating the heater with an empty or partially empty inner tank or sediment build-up resulting in dry firing of the heating elements.

- 6) To any damage or failure caused by utilizing the heater in conjunction with any other energy saving device or other source(s) of energy not approved by the manufacturer; or for other than use with potable water without any additives such as salt, chlorine, or chemicals other than those added for the purpose of rendering the water fit to drink.

- 7) To any damage or failure caused by the removal of the anode &/or by not assuring that there is a working anode in the tank at all times. All anodes must be checked at least once every two years & replaced if necessary

- 8) To any damages or failure caused by having affixed to the heater any non-factory made or factory approved replacement part(s) such as elements, controls, dip-tubes, relief valves, etc...

- 9) To any damage caused by not having the water heater installed adjacent to a free flowing drain in the event of water leakage.

- 10) If the heater is operated at water temperatures exceeding the maximum setting of the operating &/or high limit control or the heater is not supplied with potable water, free to circulate at all times.

- 11) If the heater has experienced the effect of thermal expansion due to excessive pressure (exceeding 300PSI). The result of excessive pressure usually reverses the bottom of the inner tank and can occur with the addition of a pressure reducing valve &/or a check valve in the municipal water supply system in a single family dwelling.

- 12) If the heater is installed outside of Canada or the United States.

SERVICE LABOUR RESPONSIBILITY

This warranty does not cover any labour expense for service, removal, or re-installation of a replacement heater. All such expenses are your responsibility.

SHIPPING COSTS

If a water heater or component part is deemed to be replaced, the manufacturer will pay the transportation costs of the replacement unit to a convenient authorized distributor or retailer as selected by us. You must pay any local cartage including the cost of returning the replaced item to the authorized distributor or retailer from whom the replacement is coming from.

HOW TO MAKE A CLAIM

Any claim for warranty service should be made to your contractor, wholesaler, or retailer from whom the water heater was purchased. In turn, said contractor, wholesaler, or retailer will contact the manufacturer from whom they purchased the heater. If this procedure cannot be followed, contact any other local contractor, wholesaler, or retailer handling our water heaters. Also, for warranty information you may call the manufacturer's customer service department at (514) 645-8893 or 1-800-363-9354, option 1. We suggest that prior to calling the factory, that you make sure to have the model number & serial number that is to be found on the outside casing of the heater. Proof of purchase showing the date, name, and place of the business from whom the water heater was purchased is essential to settle any warranty claim dispute over the length of the period of installation.

If an exact replacement is not available, a current model water heater or component part with comparable operating features will be provided by the manufacturer. If government regulations or industry standards require the replacement model water heater or component part to have features not found on the defective model water heater or component part, you will be charged the difference in price associated with these required features. If you pay the difference in price for these required features, you will receive a complete new Standard Basic Limited Warranty for the replacement water heater.

MISCELLANEOUS

No one is authorized to make any other warranties on the manufacturer's behalf. Any implied warranties of any nature offered by a third party other than what is stated in this Standard Basic Limited Warranty will not be honoured. No claims for incidental or consequential damages (including damages from leakage) will be accepted. If you do not return the warranty card, a proof of purchase showing the name, date, and location of the original source of purchase is a necessity to process a warranty claim. Failure to produce this documentation will result in the lesser of the warranty periods being offered. In order to avoid any confusion &/or disputes, we suggest that the warranty card be completed and mailed back no later than forty-five (45) days after installation.

EXTENDED WARRANTIES

For information on some premium quality residential gas & electric water heaters, contact your local licensed plumber, or look for them at selected retailers.