

Everlast Electric Water Heaters

Use and Care Manual

Installation

Start-Up

Maintenance

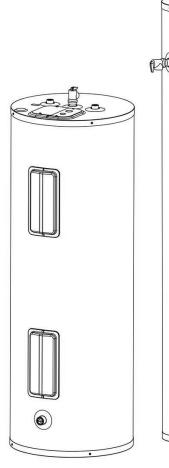
Parts

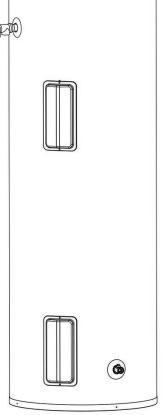
Warranty

Residential EVR Models











WARNING

This manual must only be used by a qualified installer / service technician. Read all instructions in this manual before installing. Perform steps in the given order. Failure to do so could result in substantial property damage, severe personal injury, or death.

California Proposition 65 Warning: This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

NOTICE

HTP reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature.

The surfaces of these products contacted by potable (consumable) water contain less than 0.25% lead by weight as required by the Safe Drinking Water Act, Section 1417.

NOTE TO CONSUMER: PLEASE KEEP ALL INSTRUCTIONS FOR FUTURE REFERENCE.

SPECIAL ATTENTION BOXES

The following defined terms are used throughout this manual to bring attention to the presence of hazards of various risk levels or to important product information.

DANGER

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

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in personal injury or death.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor personal injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE

NOTICE is used to address practices not related to personal injury.

Foreword

This manual is intended to be used in conjunction with other literature provided with the water heater. This includes all related control information. It is important that this manual, all other documents included in this system, and additional publications including the *Code for the Installation of Heat Producing Appliances* (latest version), be reviewed in their entirety before beginning any work.

Installation should be made in accordance with the regulations of the Authority Having Jurisdiction, local code authorities, and utility companies which pertain to this type of water heating equipment.

Authority Having Jurisdiction (AHJ) – The AHJ may be a federal, state, local government, or individual such as a fire chief, fire marshal, chief of a fire prevention bureau, labor department or health department, building official or electrical inspector, or others having statutory authority. In some circumstances, the property owner or his/her agent assumes the role, and at government installations, the commanding officer or departmental official may be the AHJ.

NOTE: HTP, Inc. reserves the right to modify product technical specifications and components without prior notice.

For the Installer

This water heater must be installed by qualified and licensed personnel. The installer should be guided by the instructions furnished with the water heater, and by local codes and utility company requirements.

Installations Must Comply With:

Local, state, provincial, and national codes, laws, regulations, and ordinances.

The latest version of the National Electrical Code, NFPA No. 70.

WARNING

IMPORTANT SAFETY INSTRUCTIONS

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

- READ ALL INSTRUCTIONS BEFORE USING THIS WATER HEATER.
- This water heater must be grounded. Connect only to a properly grounded outlet. See Part 4 – Heater Wiring, this manual, for grounding details.
- 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.
- 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 the water heater installer or a qualified service agency for examination, repair, or adjustment.

SAVETHESE INSTRUCTIONS

Table of Contents

rable of contents	
Part 1 - General Safety Information	3
A. When Servicing the Water Heating System	
B. Heater Water	3
C. Freeze Protection	3
D. Water Temperature Adjustment	3 3 3
Part 2 - Prepare the Water Heater	4
A. What's in the Box	4
B. Locating the Water Heater	4
C. Water Chemistry Requirements	6
Part 3 - Piping	7
A. Plumbing	7
B. Thermal Expansion	7 7 7 7
C. Condensation	7
D. Insulation Blankets	7
E. Temperature and Pressure Relief Valve	7
F. Scalding	8
G. Filling the Heater	S
H. Applications	S
Part 4 - Wiring	10
Part 5 - Installation Checklist	10
Part 6 - Operation	11
A. Thermostat / High Limit Control (ECO)	11
B. Thermostat Adjustment and ECO Reset	11
C. Heating Element Replacement Procedure	11
Part 7 - Maintenance	12
Part 8 - Troubleshooting	14
Limited Warranty	15

17

Customer Installation Record Form

Part 1 - General Safety Information

This water heater is approved for indoor installations only and is not intended for use as a pool heater. Clearance to combustible materials: o" top, bottom, sides, and back. Heater must have room for service: 24" front, 6" top, and 6" sides are minimum recommended service clearances. (A combustible door or removable panel is acceptable front clearance.) This water heater has been approved for closet installation and installation on combustible flooring. Do not install directly on carpeting. Install the water heater in a location where temperature and pressure relief valve discharge or a leak will not result in damage to the surrounding area. If such a location is not available, install an auxiliary catch pan.

WARNING

Installer - Read all instructions in this manual before installing. Perform steps in the given order.

User - This manual is for use only by a qualified heating installer / service technician. Have this water heater serviced / inspected annually by a qualified service technician.

FAILURE TO ADHERE TO THE GUIDELINES ON THIS PAGE CAN RESULT IN SUBSTANTIAL PROPERTY DAMAGE, SEVERE PERSONAL INJURY, OR DEATH.

NOTE: If the water heater is exposed to the following, do not operate. Immediately call a qualified service technician.

- 1. Fire
- 2. Damage
- 3. Water

Failure to follow this information could result in property damage, severe personal injury, or death.

DO NOT USE THIS WATER HEATER IF ANY PART HAS BEEN SUBMERGED IN WATER. Immediately call a qualified service technician. The water heater MUST BE replaced if it has been submerged. Attempting to operate a water heater that has been submerged could create numerous harmful conditions, such as a potential gas leakage causing a fire and/or explosion, or the release of mold, bacteria, or other harmful particulates into the air. Operating a previously submerged water heater could result in property damage, severe personal injury, or death.

NOTE: Water heater damage due to flood or submersion is considered an Act of God, and IS NOT covered under product warranty.

NOTE: Obey all local codes. Obtain all applicable permits before installing the water heater.

NOTE: Install all system components and piping in such a manner that does not reduce the performance of any fire rated assembly.

CAUTION

High heat sources (sources generating heat 100°F / 37°C or greater, such as stove pipes, space heaters, etc.) may damage plastic components of the water heater as well as plastic vent pipe materials. Such damages ARE NOT covered by warranty. It is recommended to keep a minimum clearance of 8" from high heat sources. Observe heat source manufacturer instructions, as well as local, state, provincial, and national codes, laws, regulations and ordinances when installing this water heater and related components near high heat sources.

CAUTION

Do not use this water heater for anything other than its intended purpose (as described in this manual). Doing so could result in property damage and WILL VOID product warranty.

A. When Servicing the Water Heating System

WARNING

Be sure to disconnect electrical power before performing service. Failure to do so could result in electrical shock, property damage, serious personal injury, or death.

To avoid electric shock, disconnect electrical supply before performing maintenance.

NOTE: When inquiring about service or troubleshooting, reference the model and serial numbers from the water heater rating label.

To avoid severe burns, allow water heater and associated equipment to cool before servicing.

B. Heater Water

Do not use petroleum-based cleaning or sealing compounds in a water heating system. Gaskets and seals in the system may be damaged. This can result in substantial property damage.

Do not use "homemade cures" or "patent medicines". Damage to the water heater, substantial property damage, and/or serious personal injury may result.

C. Freeze Protection

NOTE: Consider piping and installation when determining heater location.

CAUTION

Failure of the water heater due to freeze related damage IS NOT covered by product warranty.

WARNING

NEVER use any toxic chemical, including automotive, standard glycol antifreeze, or ethylene glycol made for hydronic (nonpotable) systems. These chemicals can attack gaskets and seals in water systems, are poisonous if consumed, and can cause personal injury or death.

NOTICE

UNCRATING THE WATER HEATER - Any claims for damage or shortage in shipment must be filed immediately against the transportation company by the consignee.

D. Water Temperature Adjustment

If the water heater is going to have a set temperature above 120°F, you must use an ASSE 1017 rated mixing valve to avoid severe burns or death from scalding temperatures.

WARNING

Households with small children, disabled, or elderly persons may require a 120°F or lower temperature setting to prevent severe personal injury or death due to scalding.

Approximate Time / Temperature Relationships in Scalds		
120°F	More than 5 minutes	
125°F	1 1/2 to 2 minutes	
130°F	About 30 seconds	
135°F	About 10 seconds	
140°F	Less than 5 seconds	
145°F	Less than 3 seconds	
150°F	About 1 1/2 seconds	
155°F	About 1 second	

Table 1 - Approximate Time / Temperature Relationships in Scalds

Part 2 - Prepare the Water Heater

Remove all sides of the shipping crate to allow the heater to be moved into its installation location.

CAUTION

COLD WEATHER HANDLING - If the water heater has been stored in a very cold location (BELOW o°F) before installation, handle with care until the components come to room temperature. Failure to do so could result in damage to the water heater.

A. What's in the Box

Components included with the water heater:

- Drain Valve
- Temperature and Pressure Relief Valve
- Use and Care Manual and Warranty

B. Locating the Water Heater

CAUTION

High heat sources (generating heat 100°F / 37°C or greater, such as boiler flue pipes, space heaters, etc.) may damage plastic components of the water heater as well as plastic vent pipe materials. Such damages ARE NOT covered by warranty. It is recommended to keep a minimum clearance of 8" from high heat sources. Observe heat source manufacturer instructions, as well as local, state, provincial, and national codes, laws, regulations, and ordinances when installing this water heater and related components near high heat sources.

Locate the water heater where any leakage from the relief valve, related piping, tank, or connections will not result in damage to surrounding areas or lower floors of the building. The water heater should be located near a floor drain or installed in a drain pan. Leakage damages ARE NOT covered by warranty.

WARNING

This water heater is certified for indoor use only. DO NOT INSTALL OUTDOORS. Outdoor installations ARE NOT covered by warranty. Failure to install the water heater indoors could result in property damage, severe personal injury, or death.

- 1. Installation Area (Mechanical Room) Operating Conditions
 - Ensure ambient temperatures are higher than 32°F / 0°C and lower than 104°F / 40°C
 - Avoid continuously high levels of humidity
 - Never close existing ventilation openings

CAUTION

The service life of the water heater's exposed metallic surfaces, such as the junction box, is directly influenced by proximity to damp and salty marine environments. In such areas higher concentration levels of chlorides from sea spray coupled with relative humidity can lead to degradation of water heater components.

Failure of the water heater or components due to incorrect operating conditions IS NOT covered by product warranty.

WARNING

Incorrect ambient conditions can lead to damage to the heating system and put safe operation at risk. Ensure that the installation location adheres to the information included in this manual. Failure to do so could result in property damage, serious personal injury, or death.

2. Choose a location for the water heater as centralized to the piping and electrical system as possible. Also, locate the water heater and domestic water piping where it will not be exposed to freezing temperatures. All piping should be insulated. Additionally, place the water heater so that the drain, controls, and inlets/outlets are easily accessible.

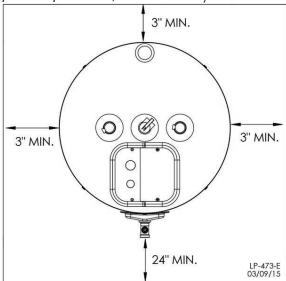


Figure 1 - Recommended Service Clearances

NOTE: To save on heating costs and improve energy efficiency keep the distance between the water heater and fixtures to a minimum to reduce heat loss from excess piping and keep friction loss at a minimum. Ensure all water heater piping is properly insulated to minimize heat loss.

NOTE: If you do not provide the minimum clearances shown in Figure 1, it might not be possible to service the water heater without removing it from the space.

NOTE: In the State of California, the water heater must be braced, anchored, or strapped to avoid moving during an earthquake. Contact local utilities for code requirements in your area. Visit http://www.dsa.dgs.ca.gov or call 1-916-445-8100 and request instructions.

However, applicable local codes shall govern installation. For residential water heaters of a capacity of greater than 52 gallons, consult the local building jurisdiction for acceptable bracing procedures.

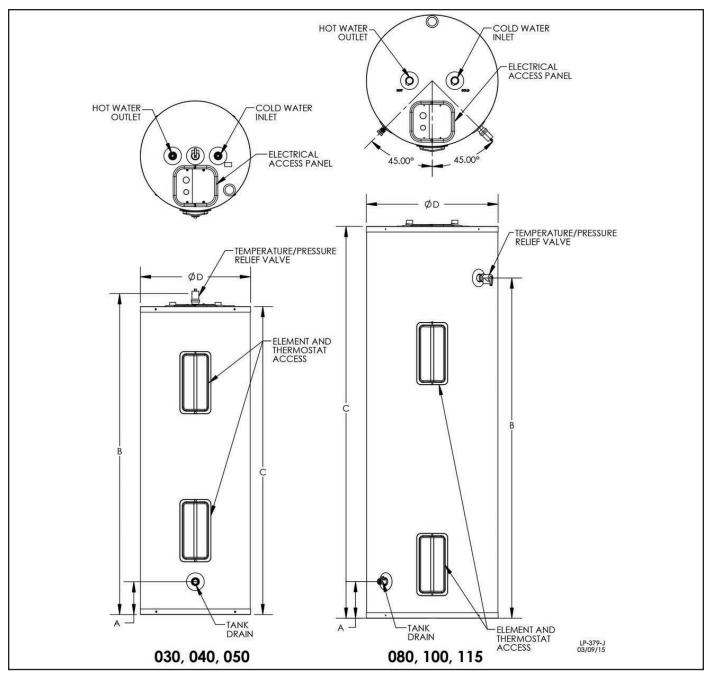


Figure 2 - Dimensional Drawing

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Specifications and Dimensions						Water	Temperature Rati	ngs		
Models	Storage Capacity	Α	В	С	D	Hot / Cold Inlets	Shipping Weight (Lbs. Est.)	Min. Delivered Temp.	Max. Delivered Temp.	High Temp. Limit
EVR030	30		44 1/4"	42 1/4"			89			
EVR040	40	5 3/4"	56 1/2"	54 1/4"	19 1/2"		104			
EVR050	50		66 3/4"	66 3/4"		-1.// NDT	118	110°F	150°F	170°F
EVRo8o	80	6 1/2"	60"	69"	23 1/4"	3/4" NPT	151	(43.3 C)	(65.5 C)	(76.6 C)
EVR100	100	//	52"	61"	"		206			
EVR115	115	7 1/4"	60 1/4"	70 1/2"	27"		224			

Table 2 - Specifications and Dimensions - See Table 3 for a List of Available Elements

Element Kit Part #	# Elements and Thermostats	Available Wattage	Voltage	Full Load Current in Amps (Single Phase)
C2X030		3,000	240	13
C2X045	2	4,500		19

Table 3 - Element Kits and Corresponding Wattages / Voltages / Amperages

3. Check area around water heater. Remove any combustible Water that is classified as hard and very hard must be softened materials, gasoline, and other flammable liquids.

This water heater must not be located near flammable liquids such as gasoline, butane, liquefied propane, adhesives, solvents, paint thinners, etc., as the controls of this water heater could ignite these vapors and cause an explosion resulting in property damage, severe personal injury, or death.

4. If the water heater is to replace an existing water heater, check for and correct any existing system problems such as:

- System leaks
- Location that could cause the system and water heater to freeze and leak
- Incorrectly-sized expansion tank

5. All piping should be insulated. Additionally, place the water heater so that the drain, controls, and inlets/outlets are easily accessible.

If you do not provide the minimum clearances shown in Figure 1, it might not be possible to service the heater without removing it from the space.

NOTE: When installing in a zero clearance location, it may not be possible to read or view some product labeling. It is recommended to make note of the water heater model and serial number.

6. This water heater must be installed vertical on a level surface.

C. Water Chemistry Requirements

CAUTION

Chemical imbalance of the water supply may affect efficiency and cause severe damage to the water heater and associated equipment. HTP recommends having water quality professionally analyzed to determine whether it is necessary to install a water softener. It is important that the water chemistry on both the domestic hot water and central heating sides are checked before installing the water heater, as water quality will affect the reliability of the system. In addition, operating temperatures above 135°F will further accelerate the build-up of lime scale and may shorten the service life of the water heater Failure of a water heater due to lime scale build-up, low pH, or other chemical imbalance IS NOT covered by the warranty.

Outlined below are water quality parameters that need to be met in order for the system to operate efficiently for many years.

Water Hardness

Water hardness is mainly due to the presence of calcium and magnesium salts dissolved in water. The concentration of these salts is expressed in mg/L, ppm, or grains per gallon as a measure of relative water hardness. Grains per gallon is the common reference used in the US water heater industry. Hardness expressed as mg/L or ppm may be divided by 17.1 to convert to grains per gallon. Water may be classified as very soft, slightly hard, moderately hard, or hard based on its hardness number. The minerals in the water precipitate out as the water is heated and cause accelerated lime scale accumulation on a heat transfer surface. This lime scale build-up may result in premature failure of the water heater. Operating temperatures above 135°F will further accelerate the build-up of lime scale and may shorten the service life of the water heater.

to avoid water heater failure.

CLASSIFICATION	MG/L OR PPM	GRAINS/GAL
Soft	0 - 17.1	0-1
Slightly Hard	17.1 - 60	1 - 3.5
Moderately Hard	60 - 120	3.5 - 7
Hard	120 - 180	7 - 10.5
Very Hard	180 and over	10.5 and over

If the hardness of the water exceeds the maximum level of 12 grains per gallon, the water should be softened to a hardness level no lower than 5 grains per gallon. Water softened as low as o to 1 grain per gallon may be under-saturated with respect to calcium carbonate, resulting in water that is aggressive and corrosive.

pH of Water

pH is a measure of relative acidity, neutrality, or alkalinity. Dissolved minerals and gases affect water pH. The pH scale ranges from 0 to 14. Water with a pH of 7 is considered neutral. Water with pH lower than 7 is considered acidic. water with a pH higher than 7 is considered alkaline. A neutral pH (around 7) is desirable for most potable water applications. Corrosion damage and tank failures resulting from water pH levels of lower than 6 or higher than 8 ARE NOT covered by warranty. The ideal pH range for water used in a water heater is 7.2 to 7.8.

Total Dissolved Solids

Total Dissolved Solids (TDS) is a measurement of all minerals and solids dissolved in a water sample. The concentration of TDS is usually expressed in parts per million (ppm).

Water with a high TDS concentration will greatly accelerate lime and scale formation in the hot water system. Most high TDS concentrations precipitate out of the water when heated. This can generate a scale accumulation that will greatly reduce the service life of the water heater.

The manufacturer of the water heater has no control over water quality, especially TDS levels in your system. TDS in excess of 2000 ppm will accelerate lime and scale formation on the element or the heat exchanger. Water heater failure due to TDS in excess of 2000 ppm IS NOT covered by warranty. Failure of a water heater due to lime scale build-up IS NOT covered by warranty.

Hardness: 12 grains Chloride levels: 100 ppm

pH levels: 6 - 8 **TDS:** 2000 ppm Sodium: 20 mG/L

CAUTION

ailure of electric elements due to lime scale build-up on the heating surface, low pH, or other imbalance IS NOT covered by the warranty.

Part 3 - Piping

A. Plumbing

It is mandatory that all plumbing be done in accordance with federal, local, and state plumbing codes and practices. Failure to properly install the water heater WILL VOID the warranty. It volume of the hot water system. See Figures 3 and 4. is also necessary to use both thread tape and pipe dope on all mechanical plumbing connections.

Install unions on the hot and cold water connections to easily disconnect the water heater for servicing.

NOTE: It is recommended to install a shut-off valve on the cold water line.

1. Connect the cold water line to the connection marked "COLD" on the top of the water heater.

CAUTION

Dielectric unions or galvanized steel fittings must not be used in a system with this water heater. Doing so WILL VOID the warranty. Use only copper, brass, or stainless steel fittings Teflon thread sealant must be used on all connections.

Do not apply heat to the Hot or Cold water heater connections If sweat connections are used, sweat tubing to the adapter before fitting adapter to the water connections on the heater. Any heat applied to the water ehater connections will permanently damage the dip tube and/or heat traps. Damages due to improper installation practices ARE NOT covered by warranty.

- 2. Connect the hot water line to the connection marked "HOT" on the top of the water heater.
- 3. An opening is provided near the top of the heater for installation of a Temperature and Pressure (T&P) Relief Valve. 4. Install drain valve in the opening provided near the bottom of the heater.

B. Thermal Expansion

A check valve may be installed in the cold water inlet line as a separate backflow preventer, or may be part of a pressure reducing valve, water meter, or water softener. An "open water system" refers to a system without a check valve. A "closed water system" refers to a system with a check valve installed in the cold water inlet line.

As water is heated, it expands in volume and increases pressure within the water system. This action is referred to as "thermal expansion". In an open water system, expanding water which exceeds the capacity of the system flows back into the city main where pressure is easily dissipated.

A closed water system prevents expanding water from flowing back to the city main. The resulting thermal expansion can rapidly increase pressure in the water heater and system piping. This rapid pressure increase can exceed the safety setting of the relief valve, causing it to operate during each heating cycle. This rapid and repeated expansion and contraction of components in the system can cause premature failure of system components, including the relief valve and possibly the water heater. Replacing the relief valve will not correct thermal expansion.

A potable hot water expansion tank is required to offset thermal expansion. Expansion tanks are designed with an air cushion built in that compresses as system pressure increases, thereby relieving the overpressure condition and eliminating repeated operation of the relief valve. This expansion tank should be installed in the cold water line between the water heater and check valve, and must be sized for the entire water

Other methods of controlling thermal expansion are available. Check with the local water utility to determine if a check valve exists in the cold water inlet line. Contact your installing contractor, water supplier, or plumbing inspector for additional information regarding thermal expansion.

C. Condensation

Condensation can form on the water heater when it is first filled with water, and may also occur with a heavy water draw and very cold inlet water temperature. This condition is not unusual and will disappear as the water becomes heated. However, if the condensation should continue, examine the piping and fittings for possible leaks.

D. Insulation Blankets

Insulation blankets for external use on electric water heaters are not necessary with this water heater. An insulation blanket is meant to reduce the standby heat loss encountered with storage tank heaters. This water heater meets or exceeds National Appliance Energy Conservation Act standards with respect to insulation and energy factor requirements, thus making an insulation blanket unnecessary.

The manufacturer's warranty does not cover any damages or defects caused by the installation, attachment, or use of any type of energy saving or other unapproved devices (other than those authorized by the manufacturer) into, onto, or in conjunction with the water heater. The use of unauthorized energy saving devices may shorten the life of the water heater and endanger life and property. The manufacturer disclaims any responsibility for any losses or injuries resulting from the use of such unauthorized devices.

WARNING

If local codes require external application of insulation blanket kits, the manufacturer's instructions included with the kit must be carefully followed.

In addition, pay careful attention to the following so as not to restrict the proper function and operation of the water heater:

- Do not cover the operating or warning labels attached to the water heater or attempt to locate them on the exterior of the insulation blanket.
- Do not apply insulation to the top of the water heater. This could interfere with the safe operation of the electrical junction box.
- Do not cover the jacket access panel(s) to the thermostat(s) and heating element(s) or T&P valve.
- Inspect the insulation blanket frequently.

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

E. Temperature and Pressure Relief Valve

For protection against excessive pressures and temperatures in this water heater, install temperature and pressure protective equipment as required by local codes, but not less than a combination T&P valve meeting the requirements for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, ANSI Z21.22B/CSA 4.4-M99 by a nationally recognized testing laboratory that maintains periodic inspection of procuction listed equipment and materials. This valve must be marked with a maximum set pressure not to exceed the marked maximum working pressure of the water heater. Install the T&P

valve into the opening provided and marked for this purpose on the water heater. The T&P valve must be plumbed down so discharge can exit at least 6" above the structural floor. The relief line cannot be in contact with any live electrical parts.

WARNING

To avoid water damage or scalding due to relief valve operation:

- Discharge line must be connected to relief valve outlet and run to a safe place of disposal. Terminate the discharge line in a manner that will prevent possibility of severe burns or property damage should the relief valve discharge.
- Discharge line must be as short as possible and the same size as the valve discharge connection throughout its entire length.
- Discharge line must pitch downward from the valve and terminate at least 6" above the floor drain, making discharge clearly visible.
- The discharge line shall terminate plain, not threaded, with a material serviceable for temperatures of 375°F or greater.
- Do not pipe discharge to any location where freezing could occur.
- No valve may be installed between the relief valve and heater or in the discharge line. Do not plug or place any obstruction in the discharge line.
- Test the operation of the relief valve after filling and pressurizing the system by lifting the lever. Make sure the valve discharges freely. If the valve fails to operate correctly, immediately replace with a new properly rated relief valve.
- Test T&P valve at least once annually to ensure the waterway is clear. If valve does not operate, turn the heater "off" and call a plumber immediately.
- Take care whenever operating relief valve to avoid scalding injury or property damage.

FAILURE TO COMPLY WITH THE ABOVE GUIDELINES COULD RESULT IN FAILURE OF RELIEF VALVE OPERATION, RESULTING IN POSSIBILITY OF SUBSTANTIAL PROPERTY DAMAGE, SEVERE PERSONAL INJURY, OR DEATH.

RE-INSPECTION OF T&P RELIEF VALVES: T&P valves should be inspected AT LEAST ONCE EVERY THREE YEARS, and replaced if necessary, by a licensed plumbing contractor or qualified service technician to ensure that the product has not been affected by corrosive water conditions and to ensure that the valve and discharge line have not been altered or tampered with illegally. Certain naturally occuring conditions may corrode the valve and its components over time, rendering the valve inoperative. Such conditions can only be detected if the valve and its components are physically removed and inspected. Do not attempt to conduct an inspection on your own. Contact your plumbing contractor for a re-inspection to assure continued safety.

FAILURE TO RE-INSPECT THE T&P VALVE AS DIRECTED COULD RESULT IN UNSAFE TEMPERATURE AND/OR PRESSURE BUILD-UP WHICH CAN RESULT IN PROPERTY DAMAGE, SERIOUS PERSONAL INJURY, OR DEATH.

Do not thread a cap or plug into the relief valve or relief valve line under any circumstances! Explosion and property damage, serious injury, or death may result.

F. Scalding

WARNING

An ASSE 1017 or ASSE 1070 temperature limiting or mixing valve is recommended in installations servicing disabled or elderly persons, or children. Mixing valves do not eliminate the risk of scalding.

To avoid scalding:

- Set the water heater set point temperature as low as possible.
- Feel water before bathing or showering.
- If thermostatic valves are required, use devices specifically designed for such purpose. Install these devices in accordance with instructions provided by the manufacturer.

Failure to install a temperature limiting or mixing valve and follow these instructions could result in property damage, severe personal injury, or death due to scalds.

Approximate Time / Temperature Relationships in Scalds			
120 ⁰ F	More than 5 minutes		
125°F	1 1/2 to 2 minutes		
130°F	About 30 seconds		
135°F	About 10 seconds		
140°F	Less than 5 seconds		
145°F	Less than 3 seconds		
150°F	About 1 1/2 seconds		
155°F	About 1 second		

Table 4 - Approximate Time / Temperature Relationships in Scalds

This water heater can deliver scalding water. Be careful whenever using hot water to avoid scalding injury. Certain appliances such as dishwashers and automatic clothes washers may require increased water temperatures. setting the thermostat on this heater to obtain the increased water temperature required by these appliances you may create the potential for scald injury.



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

To protect against

injury, install a mixing valve in the water system. This valve will reduce point of use discharge temperatures by mixing cold and hot water in branch supply lines. Such valves are available from your local plumbing supplier.

Table 4 details the relationship of water temperature and time with regard to scald injury and may be used as a guide in determining the safest water temperature for your applications.

G. Filling the Heater

- Make certain that the field installed drain valve is completely closed.
- Open the shut-off valve in the cold water supply line.
- Open the hot water faucets to allow air to vent from the heater and piping.
- Allow sufficient time for the heater to completely fill with water.
- Verify elements are installed correctly. Check for leaks.

CAUTION

When filling the water heater, open a hot water tap to release air in the tank and piping. The tank must be full of water before the heater is turned on. Failure to ensure the water heater is full before turning it on could result in damage to the water heater and other property damages. Such damages ARE NOT covered by water heater warranty.

H. Applications

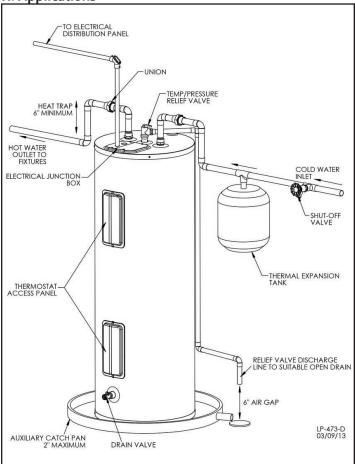


Figure 3 - 30, 40, and 50 Gallon Piping Detail - NOTE: Drawing is meant to demonstrate system piping concept. The installer is responsible for all equipment and detailing required by local codes. Heat traps are optional.

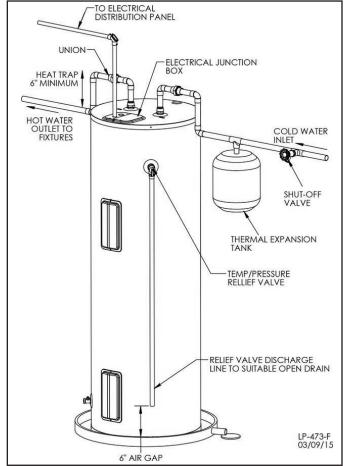


Figure 4 - 80, 100, and 115 Gallon Piping Detail - NOTE: Drawing is meant to demonstrate system piping concept. The installer is responsible for all equipment and detailing required by local codes. Heat traps are optional.

PIPING NOTES:

The following notes are applicable to all of the piping applications demonstrated on this page.

- 1. Minimum pipe size should match connection size. Upsize pipe accordingly if greater flow is required.
- 2. A thermal expansion tank suitable for potable water must be sized and installed within this piping system between the backflow preventer and the cold water inlet.
- 3. All circulators should have an integral flow check.
- 4. Drains and check valve between unit and storage tank will assist in purging air from system.
- 5. These drawings are meant to demonstrate system piping only. The installer is responsible for all equipment and detailing required by local codes. In Massachusetts, you must install a vacuum relief valve per 248 CMR.
- 6. Mixing valve application is optional, but recommended to help prevent scalding. See Part 3 for more information.

Part 4 - Wiring

CAUTION

Tank must be full of water before the power is turned on. Heating elements will be damaged if energized for even a short time while tank is dry. Failures due to "dry-firing" ARE NOT covered by warranty.

This unit is factory wired to a junction box on top of the water heater for field wiring connection. These heaters are equipped and wired for the maximum possible input allowable (see Table 3 for listing of inputs and amperage requirements). The voltage requirement and dedicated wattage load for the heater is specified on the rating label of the water heater. Consult your local power company to determine if your electrical service is adequate for the additional load of the heater.

Refer to the wiring diagrams for field connections. All wiring must conform to local code and the National Electric Code, and should be done by a qualified licensed electrician or the local electric utility. Grounding can be accomplished by using approved conduit and fittings or other approved conductive material. A grounding wire is provided on the junction bracket. This grounding wire must be used in the installation.

WARNING

Be sure to ground the water heater. The preferred way to ground is with rigid metal conduit between the main panel and the water heater junction box with approved end fittings (check codes on the use of flexible conduit). If making a separate ground, a green ground wire is provided in the water heater junction box. Replace the junction box cover and insulation after you have made the wiring connections. Failure to follow these instructions could result in property damage, severe personal injury, or death.

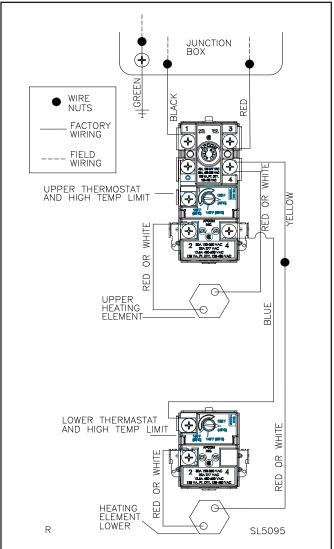


Figure 5 - Thermostat Connection

Part 5 - Installation Checklist

Water Heater Location	Yes	No
Close to area of heated water demand		
Indoors and protected from freezing temperatures		
Area free of flammable vapors		
Provisions made to protect area from water damage		
Sufficient room to service heater		
Water Supply	Yes	No
Water heater completely filled with water BEFORE operating the unit		
Air purged from water heater and piping		
Water connections tight and free of leaks		
Relief Valve	Yes	No
Temperature and Pressure Relief Valve properly installed and discharge line run to open drain		
Discharge line protected from freezing		
Wiring	Yes	No
Power supply voltage agrees with water heater rating plate		
Branch circuit wire and fusing or circuit breaker of proper size		
Electrical connections tight and unit properly grounded		

Table 5 - Installation Checklist

Part 6 - Operation

CAUTION

Tank must be full of water before the power is turned on. Heating elements will be damaged if energized for even a short time while tank is dry. Failures due to "dry-firing" ARE NOT covered by warranty.

After water and electrical connections have been made and tank is filled with water, turn on power to the heater. The heater is now in operation.

A. Combination Thermostat and High Limit Control (ECO)

This heater is equipped with a combination Thermostat - High Limit Control (ECO), which is located above the upper heating element. If for any reason the water temperature becomes excessively high, the ECO breaks the circuit to the heating element. Once the switch opens it must be reset manually. However, THE CAUSE OF THE OVER TEMPERATURE CONDITION MUST BE CORRECTED FIRST.

WARNING

The cause of the high temperature condition must be investigated by a qualified service technician and corrective action must be taken BEFORE placing the water heater back in service. Failure to do so could result in property damage, severe personal injury, or death.

B. Thermostat Adjustment and ECO Reset

There are two thermostats on dual element heaters. If temperature adjustment is necessary, TURN OFF POWER TO HEATER, remove black access cover and insulation. The thermostat protective cover SHOULD NOT be removed. Set temperature indicator to desired temperature. Replace insulation and the black access cover. Turn on power to the heater. See below for thermostat adjustment / ECO reset.

DANGER

Failure to disconnect the power from the water heater before attempting to adjust or reset the thermostat(s) will result in property damage, severe personal injury, or death.

IFYOU NEED TO ADJUST THERMOSTAT(S) OR RESETTHE ECO (RED **RESET BUTTON)**

STEP #1 - Turn off power to the water heater by removing fuse or shutting off at circuit breaker.

STEP #2 - Remove the two screws that hold the access cover in place. Remove the

STEP #3 - Remove the insulation to expose the thermostat.

STEP #4 - See Figure 6

a. Reset the ECO by pushing in the red button

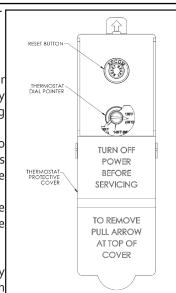


Figure 6 - Detail of Step #4

marked "RESET".

the Adjust water temperature by turning the white adjustment knob. Turning the knob to the right (clockwise) makes the water hotter. Turning the knob to the left (counterclockwise) makes the water cooler.

Step #5 - Replace the insulation.

Step #6 - Reattach the access cover with the two screws.

Step #7 - Restore power by replacing the fuse or turning on the circuit breaker.

Step #8 -

a. After resetting the ECO, ensure the water heater is operating properly before leaving the installation.

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

b. After adjusting the water temperature, allow the water heater enough time to heat the water to temperature. After the water heater has stopped heating, measure the water temperature at a hot water outlet in the structure.

Step #9 - If the water heater is operating properly and the water temperature is satisfactory, adjustment is complete.

WARNING

Risk of scald injury increases as you increase water temperature. Failure to replace insulation or access cover could result in property damage, severe personal injury, or death.

C. Heating Element Replacement Procedure

WARNING

If heating elements need replacement, it is very important to use the same voltage, wattage, and construction. The element sheath must be incoloy and the hex plug must be made of stainless steel.

STEP #1 - Turn off power to the water heater. Use a Phillips Head screwdriver to remove wires connecting the element to the thermostat.

DANGER

Failure to disconnect the power from the water heater before attempting heating element replacement will result in property damage, severe personal injury, or death due to electric shock.

STEP #2 - Run hot water at a faucet in the system. When it runs cold, shut off the faucet. Then shut off water at the main cold water inlet or, if possible, valve off the water heater from the system. Drain the water from the system, or just the water heater if it can be isolated from the system.

WARNING

Completely drain the water heater before removing and replacing a heating element or elements. Failure to do so will result in a leakage of water and property damage, and could possibly result in moderate to severe personal injury or death.

WARNING

Water drained from the water heater may be scalding hot. Take care to avoid scalding. Wear gloves and safety glasses, and direct water to a safe drainage location. Failure to comply with this warning could result in property damage, severe personal injury, or death.

CAUTION

DO NOT replace heating element with a generic heating element. Only HTP heating elements are approved for use with this water heater. Failure to follow this warning will result in premature product failure and VOID the warranty.

Step #3 - Remove the element with a 1 1/2" socket wrench or element tool.

Step #4 - Ensure thread and opening are completely free of debris. Use a nylon brush to clear away any debris..

Step #5 - Put a small amount of NSF approved lubricant and sealant on the O-Ring.

Step #6 - Screw the element clockwise into the tank, and tighten with the $1\,1/2''$ socket wrench or element tool. Be sure O-ring seats properly.

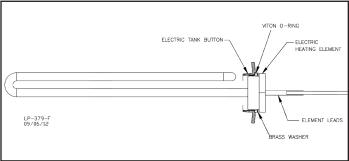


Figure 7 - Heating Element Detail

NOTE: Repeat Steps 3 - 6 as Necessary for Multiple Elements Step #7 - Open the main cold water inlet. If the water heater has been isolated from the system, open the valves. Refill the tank with cold water. Open a hot water faucet high in the system to bleed any air pressure from the system. Water will flow freely when air is completely bled.

WARNING

When filling the water heater, open a hot water tap to release air in the tank and piping. The tank must be full of water before the heater is turned on. Failure to ensure the water heater is full before turning it on will result in damage to the water heater, and could result in property damage, serious personal injury, or death. Such damages ARE NOT covered by water heater warranty.

Step #8 - Pressure check the tank for leaks around element. If no leaks are found, connect wires from the element to the thermostat.

Step #9 - Turn power back on to the water heater.

CAUTION

Failure to refill the tank before restoring power to the water heater will result in damage to the heating elements and property damage. Such damages ARE NOT covered by warranty.

Part 7 - Maintenance

Considerations

- To avoid electric shock, disconnect electrical supply before performing maintenance.
- To avoid severe burns, allow heater to cool before performing maintenance.

NOTE: In addition to the routine maintenance detailed in this manual, this water heater should be inspected annually by a qualified service technician to assure that all the equipment is operating safely and efficiently. The owner should make necessary arrangements with a qualified heating contractor for periodic maintenance of the heater. Installer must also inform the owner that lack of proper care and maintenance may result in a hazardous condition, premature heater failure, and void the warranty.

Routine preventative maintenance ensure the water heater operates safely and efficiently over its service life. The **Owner / User** may perform the maintenance activities described below

Monthly (Every two weeks in hard water locations)

It is recommended that a few quarts of water be drained from the heater. This will flush sediment deposits from the bottom of the heater and lengthen the heater's service life. Turn off power to the heater during flushing operation, so the elements will not be damaged.

CAUTION

Failure to shut off the heater when draining may damage the heating elements. Operating a partially filled / empty water heater could lead to damage from "dry-firing". Failures due to such damage ARE NOT covered by warranty.

WARNING

Water drained from the water heater may be scalding hot. Take care to avoid scalding. Wear gloves and safety glasses, and direct water to a safe drainage location. It is recommended to turn power off to the water heater and run water at a hot water faucet until it cools BEFORE draining water from the heater. Failure to comply with this warning could result in property damage, severe personal injury, or death.

To flush the tank, attach a hose to the field installed drain valve. Close the cold water supply line shut-off valve. Open the drain valve and hot water faucet(s) to vent heater while draining. Direct the flow of water to a drain or bucket where it will not cause damage.

Flush until water runs clear to complete this operation. Close drain valve and reopen the supply line shut-off valve. Close the hot water faucet(s) once all air has been bled from the system (when water runs freely). Make certain that the heater is completely full of water before restoring power.

Periodically (At least twice a year)

Check around the water heater and related plumbing for leaks. If the combination temperature and pressure relief valve discharges periodically, or water is leaking from around the heating elements, there may be a problem with your water system. DO NOT ATTEMPT TO REPAIR LEAKS YOURSELF! Contact a qualified service contractor for assistance.

Check the area around the water heater for flammable liquids or combustible materials. If any are found, remove from the

area.

Vacation (Extended shut-off periods)

During extended mild or warm weather periods when hot water will not be in use, shut off the electric power to the tank. When hot water is needed again, restore power to the water heater.

During extended cold weather periods when hot water will not be in use and prone to freezing conditions, shut off electric power to the tank, close the supply line shut-off valve, open the drain valve and drain the water heater to a safe drainage location (as detailed previously). Once drained, close the drain valve. When hot water is needed again, restore the water supply to the tank. Once the tank is full, restore power.

WARNING

Water drained from the water heater may be scalding hot. Take care to avoid scalding. Wear gloves and safety glasses, and direct water to a safe drainage location. It is recommended to turn power off to the water heater and run water at a hot water faucet until it cools BEFORE draining water from the heater. Failure to comply with this warning could result in property damage, severe personal injury, or death.

The maintenance activities described below are only to be performed by the **Installer / Qualified Service Provider**. These maintenance items should be performed during recommended **annual** service and any service calls.

- 1. Ask the owner / user if there have been any issues with the water heater. Diagnose any heater issues and repair / replace parts as necessary.
- 2. Check the water heater and related plumbing for leaks. Repair any that are found.
- 3. Check the area around the water heater for flammable liquids or combustible materials. If any are found, remove from the area.
- 4. Check the heating elements while the heater is in operation.

If the elements are hissing / singing excessively, they may need to be cleaned. Inspect the elements and clean if necessary.

5. Inspect the Temperature and Pressure (T&P) Relief Valve. See instructions below.

WARNING

T&P Relief Valve Maintenance Instructions:

- Annually: Certain naturally occuring mineral deposits may adhere to the valve, blocking waterways and rendering the valve inoperative. The T&P Relief Valve lever must be operated to ensure the waterways are clear. If waterways are clear, hot water will discharge from the valve. Take precautions to avoid personal injury and property damage from contact with hot water. Before operating lever, check to see that a discharge line is connected to the valve, directing the flow of hot water from the valve to a proper place of disposal.
- Replacement of the valve is required if no water flows when the lever is operated. Turn the water heater off until the valve is replaced.
- If water flows from the valve, drain a few gallons from the tank to ensure the water flows freely.
- At least once every three years: To ensure that the T&P valve has not been affected by corrosive water conditions and and that the valve and discharge line have not been altered or tampered with illegally, relief valves should be inspected, and replaced, if necessary, by a licensed plumbing contractor or qualified service technician.

Failure to comply with these guidelines could result in failure of relief valve operation, and possibly result in substantial property damage, severe personal injury, or death.

6. Turn power supply off to the water heater. Open the drain valve and drain a few gallons of water from the tank to clear any hard water deposits. Once complete, close the drain valve and restore power to the water heater.

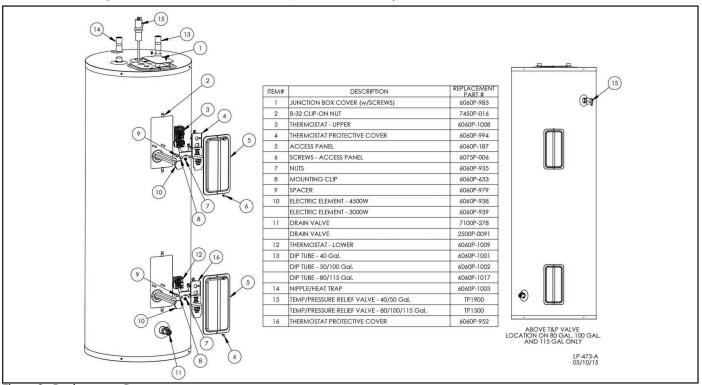


Figure 8 - Replacement Parts

Part 8 - Troubleshooting

Troubleshooting				
No Hot	Water	Not Enough Hot Water		
Problem	Possible Solution	Problem	Possible Solution	
Manual disconnect switch turned off	Turn switch on	Heater undersized	Reduce rate of heater use	
Improper wiring	*Rewire per Wiring Detail	Defective element(s)	*Check amperage, replace element if low	
No Power - blown fuse or circuit breaker tripped 1. Shorted wiring	Replace fuse or reset breaker 1. *Replace or repair	Miswired or defective ther- mostat causing only one element to work	*Check wiring or replace	
2. Circuit overloaded	 *Provide adequate circuit to reduce 	Water Too Hot o	r Not Hot Enough	
3. Improper wiring4. Grounded element or	load	Problem	Possible Solution	
thermostat	 *Rewire per detail *Replace 	Thermostat setting too high or low	Change setting as required	
Manual Reset High Limit (ECO) open	Refer to Part 6, this manual.	Thermostat out of calibration	*Replace	
1. Thermostat(s) defective	 *Replace thermostat(s) 	Thermostat access panel(s) and/or insulation not in place	Inspect and replace as needed	
 Thermostat out of calibration Heat build-up due to loose wires Defective ECO 	 *Lower thermostat setting or replace *Tighten wire connections * Replace 	Thermostat(s) not resting tightly against mounting plate	Inspect and insure that retaining spring(s) or mounting screws hold thermostat(s) tightly to mounting plates	
Noisy Heatin	g Elements	T&P Valve	Discharges	
Problem	Possible Solution	Problem	Possible Solution	
Hard water scale built up on element(s)	*Remove and clean	Improperly seated valve	Attempt to reseat valve by opening and closing handle	
Water L	.eaks	Thermal expansion in closed water system	Install a thermal expansion tank	
Problem	Possible Solution	Damaged / defective valve	Replace relief valve	
Loose connection between inlet / outlet piping, relief valve, and/or hex nut union on tank fittings	Tighten fittings	NOTE: DO NOT plug T&P valve under any circumstances		
Damaged seal ring washer	Replace seal rings as required	A WAI	RNING	
Gasket around heating element(s)	Inspect and replace gasket if necessary			
Hot Water Odor			hot water to avoid scald injury.	
Problem Possible Solution			. Failure to follow the instructions	
High sulfate or mineral content in water supply	Drain and flush water heater. Refill.	in this warning statement could result in serious personal injur or death from scalds.		
Bacteria in water supply	Check with local water treatment specialist or utility to identify and address this problem.	If draining of the water heater is necessary, open the T&P valve or a hot water tap to prevent vacuum buildup in the tank and piping.		

Table 6 - Troubleshooting - *See scald warning below.

Everlast Stainless Steel Electric Water Heater Limited Warranty

For Residential and Commercial Use

HTP warrants each residential stainless steel electric water heater to be free from defects in materials and workmanship according to the following terms, conditions, and time periods. The number of replacement water heaters is limited to one (1) per original unit purchased. Replacement parts will be warranted for 90 days. UNLESS OTHERWISE NOTED THESE WARRANTIES COMMENCE ON THE DATE OF INSTALLATION. This limited warranty is only available to the original owner of the water heater, and is non-transferable.

WARRANTY PERIODS

Category	Extended Residential Use Warranty	Parts	Tank
	Home owned and resided in by the original purchaser;		
Residential, a single family dwelling, with operating temperatures not exceeding	The unit is installed in a residential rental property and services a single dwelling in which the original purchaser resides on a permanent basis;	Six (6) Years	Lifetime
140°F	And water heater is registered online within 90 days of the installation date.		
Category	Standard Residential Use Warranty	Parts	Tank
Residential, a single family dwelling, with operating temperatures not exceeding 140°F	The water heater is installed as described above but not registered online within 90 days of the installation date.	One (1) Year	Ten (10) Years
Category	Extended Commercial Use Warranty	Parts	Tank
Commercial	Any application not meeting the definitions of "Residential Use";	One (1)	Ten (10) Years
Commercial	And water heater is registered online within 90 days of the installation date.	Year	
Category	Standard Commercial Use Warranty	Parts	Tank
Commercial	The water heater is installed as described above but not registered online within 90 days of the installation date.	One (1) Year	Five (5) Years

COVERAGE

A. During the first year after the original date of installation in the dwelling, HTP warrants that it will repair or replace, at its option, any defective or malfunctioning component of the stainless steel electric water heater with a component of equivalent size and current model. Replacement components will be warranted for ninety (90) days. It is expressly agreed between HTP and the original consumer purchaser that repair or replacement are the exclusive remedies of the original consumer purchaser.

- B. Should a defect or malfunction result in a leakage of water within the above-stated warranty periods due to defective material or workmanship, malfunction, or failure to comply with the above warranty, HTP will replace the defective or malfunctioning water heater with a replacement of the nearest comparable model available at the time of replacement. The number of replacement water heaters is limited to one (1) per original unit purchased.
- C. If HTP is unable to repair or replace the water heater so as to conform to this warranty after a reasonable number of attempts, HTP will then provide, at its option, a replacement unit. These remedies are the purchaser's exclusive remedies for breach of warranty.
- D. If government regulations, industry certification, or similar standards require the replacement water heater or part(s) to have features not found in the defective water heater or part(s), the owner will be charged the difference in price represented by those required features. If the owner pays the price difference for those required features and/or to upgrade the size and/or other features available on a new replacement water heater or part(s), the owner will also receive a complete new limited warranty for that replacement water heater or part(s).
- E. If at the time of a request for service the owner cannot provide a copy of the original sales receipt or the extended warranty registration, the warranty period for the water heater shall then be deemed to have started on the date of manufacture of the water heater and NOT the date of installation of the water heater, and be covered by the unexpired portion of the Standard Limited Residential or Commercial Use Warranty detailed above.
- F. This warranty extends only to water heaters utilized in heating applications that have been properly installed by qualified professionals based upon the manufacturer's installation instructions.

OWNER RESPONSIBILITIES

To avoid the exclusion list in this warranty, the owner or installer must:

- 1. Have a vacuum relief valve and temperature and pressure relief valve bearing the listing marks of the American Society of Mechanical Engineers (ASME) installed with the water heater assembly in accordance with federal, state, and local codes.
- 2. Operate the water heater assembly at water pressures not exceeding the working pressure shown on the rating plate.
- 3. Keep the water heater free of damaging scale deposits.
- 4. Use the water heater in an open system, or in a closed system with a properly sized and installed thermal expansion tank.
- 5. Make provisions so if the water heater or any component part or connection thereto should leak, the resulting flow of water will not cause damage to the area in which it is installed.

WARRANTY EXCLUSIONS

This limited warranty will not cover:

- 1. Any water heater purchased from an unauthorized dealer.
- 2. Any water heater not installed by a qualified heating installer/service technician.
- 3. Service trips to teach you how to install, use, maintain, or to bring the water heater installation into compliance with local building codes and regulations.
- 4. Failure to locate the water heater in an area where leakage of the tank or water line connections and the combination temperature and relief valve will not result in damage to the area adjacent to the water heater or lower floors of the structure.
- 5. Any failed components of the heat system not manufactured by HTP as part of the water heater.
- 6. Water heaters repaired or altered without the prior written approval of HTP.
- 7. Damages, malfunctions, or failures resulting from failure to install the water heater in accordance with applicable building codes/

ordinances or good plumbing and electrical trade practices.

- 8. Damages, malfunctions, or failures resulting from improper installation, failure to operate the water heater at pressures not exceeding the working pressure shown on the rating plate, or failure to operate and maintain the water heater in accordance with the manufacturer's provided instructions.
- 9. Damages, malfunctions, or failures caused by operating the water heater with modified, altered, or unapproved parts.
- 10. Failure to operate the water heater in an open system, or in a closed system with a properly sized and installed thermal expansion tank.
- 11. Failure or performance problems caused by improper sizing of the water heater, expansion device, or piping.
- 12. Damages, malfunctions, or failures caused by abuse, accident, fire, flood, freeze, lightning, acts of God and the like.
- 13. Failures (leaks) caused by operating the water heater in a corrosive or contaminated atmosphere.
- 14. Failure of the water heater due to the accumulation of solid materials, lime deposits, water quality contrary to the manufacturer's provided instructions. WATER CHEMISTRY REQUIREMENTS Sodium less than 20mGL. Water pH between 6.0 and 8.0. Hardness less than 12 grains. Chlorine concentration less than 100 ppm.
- 15. Any damages, malfunctions, or failures resulting from the use of dielectric unions.
- 16. Production of noise, taste, odors, discoloration, or rusty water.
- 17. Damages, malfunctions, or failures caused by subjecting the tank to pressures greater than those on the rating label.
- 18. Water heaters moved from the original installation location.
- 19. Water heaters that have had their rating labels removed.
- 20. Water heaters replaced for cosmetic reasons.
- 21. Water heaters installed outside the fifty states (and the District of Columbia) of the United States of America and Canada.

ONLINE EXTENDED LIMITED WARRANTY REGISTRATION

To register for the Extended Limited Warranty, complete the form located on the HTP website at http://www.htproducts.com/warranty within 90 days of installation. The form must be completed in full with owner name, email address, and phone number, the address where the unit is installed and installation date, and unit model and serial numbers. Proof of purchase is required, and may be an invoice for the product, or a bill from an installing contractor that clearly documents the installation of the unit. To be valid, proof of purchase must also include the unit serial number. Proof of purchase may be typed or hand written. Submit the proof of purchase to HTP, Inc. via the directions provided on the website.

PROCEDURES FOR WARRANTY SERVICE REQUESTS

Any claim for warranty assistance must be made promptly. Determine if the water heater is "in-warranty" (that is, within the applicable warranty period) by reviewing a copy of the original sales receipt. You must present a copy of the original sales receipt for a warranty service request.

If your water heater is "in-warranty", contact the retailer from whom the water heater was purchased (or the installer) for assistance. Be prepared to provide the retailer or installer with a copy of your original receipt, complete model and serial numbers, and the date of installation of your water heater, in addition to explanation of your water heater problem.

Warranty coverage is subject to validation of "in-warranty" coverage by HTP claims department personnel. All alleged defective or malfunctioning parts must be returned to HTP via the local distribution channels where original purchase was made. NOTE: Any parts or heaters returned to HTP for warranty analysis will become the property of HTP and will not be returned, even if credit is denied.

If all warranty conditions are satisfied, HTP will provide replacement parts to the retailer.

If you have questions about the coverage of this warranty, please contact HTP at the address or phone number stated below:

HTP P.O. Box 429 120 Braley Road East Freetown, MA 02717

Attention: Warranty Service Department 1(800) 323-9651

SERVICE, LABOR AND SHIPPING COSTS

This limited warranty does not extend to any shipping charges, delivery expenses, or administrative fees incurred by the purchaser in repairing or replacing the water heater or part(s). This warranty does not extend to labor costs beyond the coverage specified in this warranty document. All such expenses are your responsibility.

LIMITATIONS OF YOUR HTP WARRANTY AND REMEDIES THE FOREGOING WARRANTIES ARE EXCLUSIVE AND ARE GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY IN CONTRACT OR TORT, WHETHER OR NOT ARISING FROM HTP'S NEGLIGENCE, ACTUAL OR IMPUTED. THE REMEDIES OF THE PURCHASER SHALL BE LIMITED TO THOSE PROVIDED HEREIN TO THE EXCLUSION OF ANY OTHER REMEDIES INCLUDING WITHOUT LIMITATION, INCIDENTAL OR CONSEQUENTIAL DAMAGES, SAID INCIDENTAL AND CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, PROPERTY DAMAGE. LOST PROFIT OR DAMAGES ALLEGED TO HAVE BEEN CAUSED BY ANY FAILURE OF HTP TO MEET ANY OBLIGATION UNDER THIS AGREEMENT INCLUDING THE OBLIGATION TO REPAIR AND REPLACE SET FORTH ABOVE. NO AGREEMENT VARYING OR EXTENDING THE FOREGOING WARRANTIES, REMEDIES OR THIS LIMITATION WILL BE BINDING UPON HTP. UNLESS IN WRITING AND SIGNED BY A DULY AUTHORIZED OFFICER OF HTP. THE WARRANTIES STATED HEREIN ARE NOT TRANSFERABLE AND SHALL BE FOR THE BENEFIT OF THE ORIGINAL PURCHASER ONLY.

NO OTHER WARRANTIES

Your HTP warranty gives you specific legal rights, and you may also have other rights that vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages so this limitation or exclusion may not apply to you. These are the only written warranties applicable to the water

heater manufactured and sold by HTP. HTP neither assumes nor authorizes anyone to assume for it any other obligation or liability in connection with said water heaters.

HTP reserves the right to change specifications or discontinue models without notice.

Customer Installation Record Form				
The following form should be completed by the installer for you to keep as a record of the installation in case of a warranty claim. After reading the important notes at the bottom of the page, please also sign this document.				
Customer's Name				
Date of Installation				
Installation Address				
Product Name / Serial Number(s)				
Comments				
Installer's Code / Name				
Installers Phone Number				
Signed by Installer				
Signed by Customer				
Installation Notes				

IMPORTANT

Customer: Please only sign after the installer has fully reviewed the installation, safety, proper operation, and maintenance of the system. If the system has any problems please call the installer. If you are unable to make contact, please call your sales representative. Distributor / Dealer: Please insert contact details.