

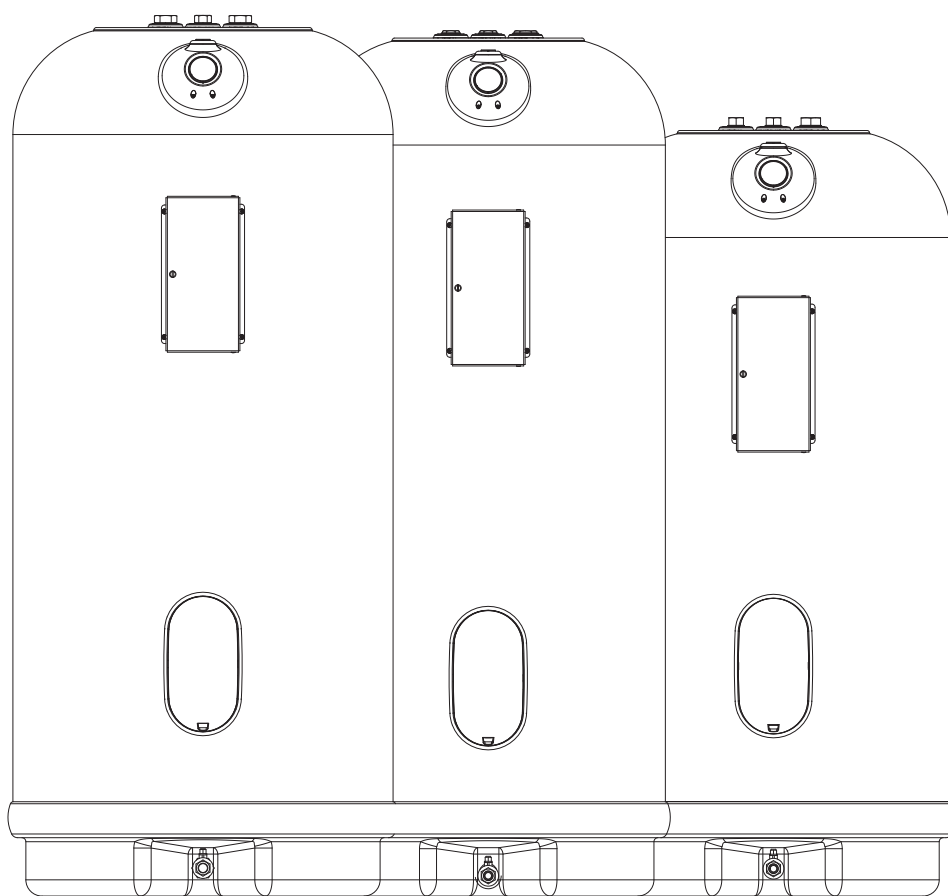
Use & Care Manual

With Installation Instructions for the Installer

Light Duty Commercial Electric

Water Heaters

Double Element Models,
75, 85, 105 Gallon



The purpose of this manual is twofold: one, to provide the installer with the basic directions and recommendations for the proper installation and adjustment of the water heater; and two, for the owner-operator, to explain the features, operation, safety precautions, maintenance and troubleshooting of the water heater. This manual also includes a parts list.

It is imperative that all persons who are expected to install, operate or adjust this water heater read the instructions carefully so they may understand how to perform these operations. If you do not understand these instructions or any terms within it, seek professional advice.

Any questions regarding the operation, maintenance, service or warranty of this water heater should be directed to the seller from whom it was purchased. If additional information is required, refer to the warranty.

Do not destroy this manual. Please read carefully and keep in a safe place for future reference.



Recognize this symbol as an indication of Important Safety Information!



California Proposition 65 Warning:

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



Safety Information

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FOR YOUR RECORDS

Write the model, serial numbers, and installation details on the back cover of the manual.

This information is located on the rating plate (silver label) on the unit.

Staple sales slip or cancelled check here.

Proof of the original purchase date is needed to obtain service under the warranty.



READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your water heater properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your water heater.

You'll find many answers to common problems in the Before You Call For Service section. If you review our chart of Troubleshooting Tips first, you may not need to call for service at all.



READ THE SAFETY INFORMATION

Your safety and the safety of others are very important. There are many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol. Recognize this symbol as an indication of Important Safety Information! 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”, “WARNING”, “CAUTION” or “NOTICE”.

These words mean:

DANGER

An imminently hazardous situation that will result in death or serious injury.

WARNING

A potentially hazardous situation that could result in death or serious injury and/or damage to property.

CAUTION

A potentially hazardous situation that may result in minor or moderate injury.

NOTICE:

Attention is called to observe a specified procedure or maintain a specific condition.

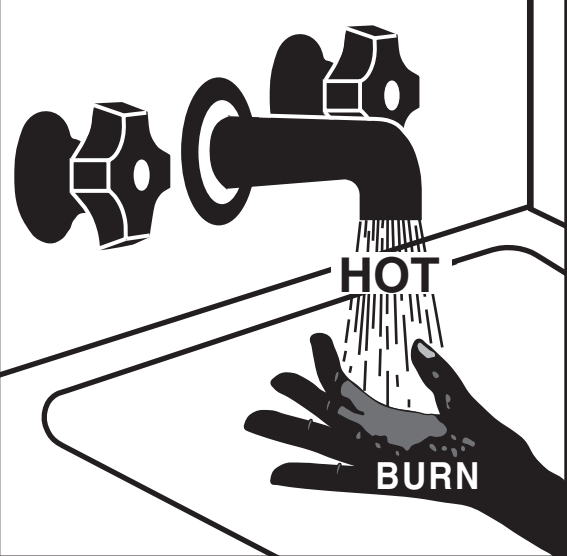
IMPORTANT SAFETY INFORMATION. READ ALL INSTRUCTIONS BEFORE USING.

⚠ DANGER!

WATER TEMPERATURE SETTING



Safety and energy conservation are factors to be considered when selecting the water temperature setting of water heater's thermostat. Water temperatures above 125°F (51°C) can cause severe burns or death from scalding. Be sure to read and follow the warnings outlined on the label pictured below. This label is also located on the water heater near the thermostat access panel.



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.

NOTICE: Mixing valves are recommended for reducing point of use water temperature by mixing hot and cold water in branch water lines. It is recommended that a mixing valve complying with the Standard for Temperature Actuated Mixing Valves for Hot Water Distribution Systems, ASSE 1017 be installed. See page 14 for more details and contact a licensed plumber or the local plumbing authority for further information.

Time/Temperature Relationship in Scalds

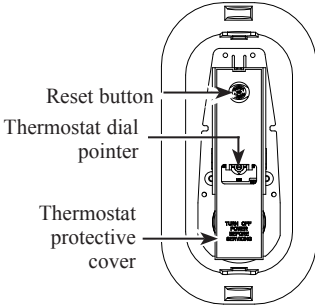
Temperature	Time To Produce a Serious Burn
120°F (49°C)	More than 5 minutes
125°F (51°C)	1½ to 2 minutes
130°F (54°C)	About 30 seconds
135°F (57°C)	About 10 seconds
140°F (60°C)	Less than 5 seconds
145°F (63°C)	Less than 3 seconds
150°F (66°C)	About 1½ seconds
155°F (68°C)	About 1 second

Table courtesy of Shriners Burn Institute

The chart shown above may be used as a guide in determining the proper water temperature for your location.

⚠ DANGER: Locations with small children, disabled, or elderly persons may require a 120°F (49°C) or lower thermostat setting to prevent contact with “HOT” water.

The temperature of the water in the heater is regulated by the adjustable surface mounted thermostat(s) located behind the jacket access panel(s). Dual element heaters have two thermostats. To comply with industry standards the thermostat(s) were set at 120°F before the water heater was shipped from the factory. Canadian models are set to 140°F (60°C).



The illustration at the left shows the temperature adjustment dial used for setting the water temperature.

Refer to the Operating Instructions in this manual for detailed instructions in how to adjust the thermostat(s).

⚠ DANGER: Hotter water increases the potential for Hot Water SCALDS.

IMPORTANT SAFETY INFORMATION. READ ALL INSTRUCTIONS BEFORE USING.

WARNING!

For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, or to prevent property damage, personal injury, or loss of life.

Be sure to read and understand the entire Use and Care Manual before attempting to install or operate this water heater. It may save you time and cost. Pay particular attention to the Safety Instructions. Failure to follow these warnings could result in serious bodily injury or death. Should you have problems understanding the instructions in this manual, or have any questions, STOP, and get help from a qualified service technician, or the local electric utility.



FOR INSTALLATIONS IN THE STATE OF CALIFORNIA

California Law requires that residential water heaters must be braced, anchored or strapped to resist falling or horizontal displacement due to earthquake motions. For residential water heaters up to 52 gallon capacity, a brochure with generic earthquake bracing instructions can be obtained from: Office of the State Architect, 1102 Q Street, Suite 5100, Sacramento, CA 95811 or you may call 916-445-8100 or ask a water heater dealer.

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



SAFETY PRECAUTIONS

Have the installer show you the location of the circuit breaker and how to shut it off if necessary. Turn off the circuit breaker if the water heater has been subjected to overheating, fire, flood, physical damage or if the ECO (Emergency Cut Off) on the thermostat fails to shut off.

- Read this manual entirely before installing or operating the water heater.
- Use this appliance only for its intended purpose as described in this Use and Care Manual.
- Be sure your appliance is properly installed in accordance with local codes and the provided installation instructions.
- **DO NOT** attempt to repair or replace any part of your water heater unless it is specifically recommended in this manual. All other servicing should be referred to a qualified technician.
- All replacement parts used on this product must be manufacturer authorized components.
- **DO NOT** turn on the electrical supply or operate this water heater unless it is completely full of water.



READ AND FOLLOW THIS SAFETY INFORMATION
CAREFULLY.

SAVE THESE INSTRUCTIONS

Installing the water heater.

Local Installation Regulations

This water heater must be installed in accordance with these instructions, local codes, utility codes, utility company requirements or, in the absence of local codes, the latest edition of the National Electrical Code. It is available from some local libraries or can be purchased from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269 as booklet ANSI/NFPA 70.

If the water heater is to be installed in a restaurant, or other location where NSF International listing is required, it must

be weather sealed to the floor, a raised base, or on a shelf so that seepage cannot accumulate under it; or elevated to provide at least (6) inches of clearance from the floor.

In order to meet NSF International requirements for Standard 5, the base of the water heater must be sealed to the floor to prevent seepage underneath. Apply a 3/8" bead of RTV Silicone completely around the floor edge of the base of the tank.

The location chosen for the water heater must take into consideration the following:

Location

NOTICE: DO NOT use fittings on top of the unit as handles or lift points.

Locate the water heater in a clean dry area as near as practical to the area of greatest heated water demand. Long un-insulated hot water lines can waste energy and water.

Place the water heater in such a manner that the thermostat and element access panels can be removed to permit inspection and servicing such as removal of elements or checking controls.

The water heater and water lines should be protected from freezing temperatures.

DO NOT install the water heater in outdoor, unprotected areas or near any other appliances where high temperatures are present, such as wood burning stoves, boilers, or furnaces. High temperatures can warp or otherwise damage the non-metallic construction of this water heater.

Make certain the floor underneath the water heater is strong enough to sufficiently support the weight of the water heater once it is filled with water.

Unit Capacity (Gallons)	Unit Capacity (Imperial Gallons)	Dimensions (Inches)		Shipping Weight (lbs)	Approximate Full Weight (lbs)
		Height ¹	Diameter		
75	63	62 5/8	28 1/4	128	754
85	71	70 1/4	28 1/4	140	849
105	88	70 3/4	30 1/4	158	1,034

¹ Height includes factory installed Temperature and Pressure Relief Valve.

Installing the water heater.

Thermal Expansion

Determine if a check valve exists in the inlet water line. Check with your local water utility. It may have been installed in the cold water line as a separate back flow preventer, or it may be part of a pressure reducing valve, water meter or water softener. A check valve located in the cold water inlet line can cause what is referred to as a **“closed water system”**. A cold water inlet line with no check valve or back flow prevention device is referred to as an **“open”** water system.

As water is heated, it expands in volume and creates an increase in the 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 water heater flows back into the city main where the pressure is easily dissipated.

A **“closed water system”**, however, prevents the expanding water from flowing back into the main supply line, and the result of **“thermal expansion”** can create a rapid and dangerous pressure increase in the water heater

and system piping. This rapid pressure increase can quickly reach the safety setting of the relief valve, causing it to operate during each heating cycle. Thermal expansion, and the resulting rapid and repeated expansion and contraction of components in the water heater and piping system can cause premature failure of the relief valve, and possibly the heater itself. Replacing the relief valve **will not** correct the problem!

The suggested method of controlling thermal expansion is to install an expansion tank in the cold water line between the water heater and the check valve (refer to the illustration on page 9). The expansion tank is designed with an air cushion built in that compresses as the system pressure increases, thereby relieving the over pressure condition and eliminating the repeated operation of the relief valve. Other methods of controlling thermal expansion are also available. Contact your installing contractor, water supplier or plumbing inspector for additional information regarding this subject.

Inspect Water Heater

Inspect the water heater for possible damage. Check the markings on the rating plate of the water heater to be certain the power supply corresponds to the water heater requirements.

Vacuum Relief Valve

NOTICE: DO NOT operate the unit without the vacuum relief valve for any reason. Doing so will void the manufacturer’s warranty.

The vacuum relief valve, which must be used when installing the water heater, is factory installed.

The cold water inlet has a vacuum relief valve connected to it. Certain conditions in the field may produce a vacuum or negative pressure condition inside the water heater’s tank. This negative pressure can cause the tank to fail. The vacuum relief valve provides

a means to eliminate the negative pressure or vacuum by admitting air into the tank to equalize the pressure.

It is not recommended to pull a vacuum on the unit.

If a vacuum is pulled on the unit, refer to the "To Fill the Water Heater" section to ensure the unit is full of water before operating.

A new combination temperature and pressure relief valve, complying with the Standard for Relief Valves for Hot Water Supply Systems, ANSI Z21.22, is supplied and must be installed in the opening provided and marked for the purpose on the water heater. No valve of any type should be installed between the relief valve and the tank. Local codes shall govern the installation of relief valves.

Temperature and Pressure Relief Valve

▲ WARNING: The pressure rating of the relief valve must not exceed 150 psi, (1034 kPa), the maximum working pressure of the water heater as marked on the rating plate.

The BTUH rating of the relief valve must not be less than the input rating of the water heater as indicated on the rating label located on the front of the heater (1 watt=3.412 btu/h).

Connect the outlet of the relief valve to a suitable open drain so that the discharge water cannot contact live electrical parts or persons and to eliminate potential water damage.

Piping used should be of a type approved for hot water distribution. The discharge line must be no smaller than the outlet of the valve and must pitch downward from the valve to allow complete drainage (by gravity) of the relief valve and discharge line. The end of the discharge line should not be threaded or concealed and should be protected from freezing. No valve of any type, restriction or reducer coupling should be installed in the discharge line.

Drain Pan

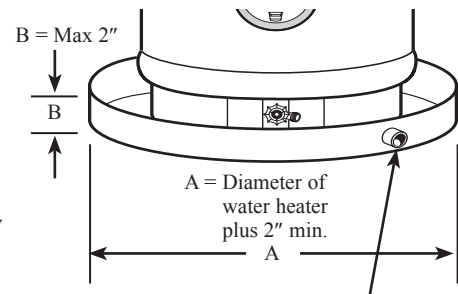
NOTICE: Auxiliary catch pan **MUST** conform to local codes.

NOTICE: Water heater must be centered in drain pan.

The water heater should not be located in an area where leakage of the tank or connections will result in damage to the area adjacent to it or to lower floors of the structure. Where such areas cannot be avoided, it is recommended that a suitable drain pan, adequately drained, be installed under the water heater.

Under no circumstance will the manufacturer be held liable for any water damage in connection with this water heater.

Drain pan kits are available from the store where the water heater was purchased, or any water heater distributor.



To open drain, this line should be at least 3/4" ID and pitched for proper drainage.

Installing the water heater.

Water Supply Connections

NOTICE: DO NOT attempt to turn any fitting connected to the water heater union hex nuts that are tightened.

NOTICE: The hex nut connections on the units use rubber seal rings to provide the water tight seal. **DO NOT** use pipe sealant on this joint. **DO NOT** torque the union hex nuts to over 35 ft-lbs when reinstalling the components.

SOLDER WITH CARE!!!

If sweat connections are used, **DO NOT** apply heat directly to any component directly connected to the water heater. Assemblies should be built to a minimum length of 12" before attaching to any connection on the water heater to avoid damaging the unit.

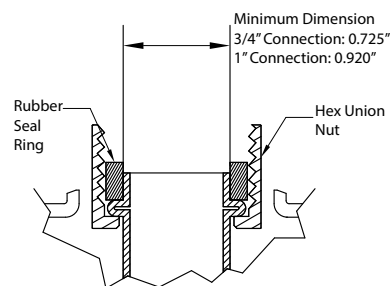
▲WARNING: Failure to follow the instructions provided in this manual may permanently damage the unit and void the manufacturer's warranty.

Refer to the illustration on the next page for suggested typical installation. The installation of unions or flexible copper connectors is recommended on the hot and cold water connections so that the unit may be easily disconnected for servicing if necessary. The HOT and COLD water connections are clearly marked on the top of the unit. Install a shut-off valve in the cold water line near the unit.

The hot water connection is provided with a $\frac{3}{4}$ " or 1" connection depending on the size of the unit. A metal fitting should be used for the connection to the unit at this location. The hot water connection contains a plastic cap to contain a rubber seal ring that is used to form a water tight connection. Take care when removing the plastic cap so the rubber seal ring is not lost. Be sure the rubber seal ring is seated inside the union hex nut before making the final connection.

DO NOT use pipe sealant on this joint. **DO NOT** torque the union hex nuts to over 35 ft-lbs when reinstalling the components.

The cold water connection and the temperature and pressure relief valve are supplied with $\frac{3}{4}$ " NPT connections. They may be temporarily disconnected from the unit to ease installation by loosening the union hex nuts connecting the fittings to the unit. The connection of these parts to the unit use rubber seal rings to form a water tight connection. Re-use the rubber seal rings that are provided with the unit when re-installing these components. Follow the instructions listed for the hot water connection to reconnect the union hex nuts.



The hot water connection fitting must have an inside diameter greater than the minimum shown in the picture above.

To Fill the Water Heater

Make certain the drain valve on the water heater is completely closed.

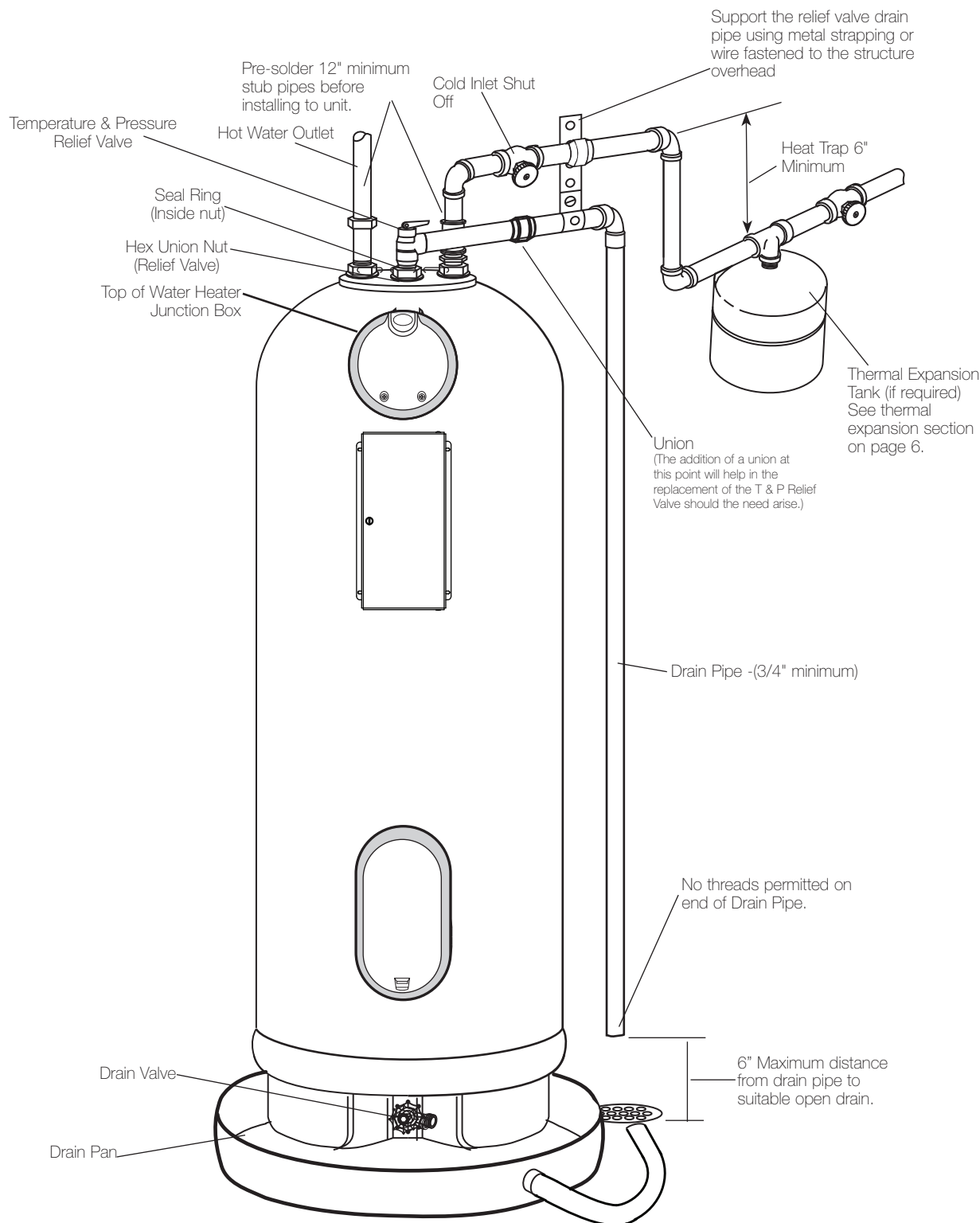
Open the shut-off valve in the cold water supply line.

Open each hot water faucet slowly to allow the air to vent from the water heater and piping.

A steady flow of water from the hot water faucet(s) indicates a full water heater.

▲WARNING: DO NOT turn on the electrical supply or operate this water heater unless it is completely full of water. The tank must be full of water before heater is turned on. The water heater warranty does not cover damage or failure resulting from operation with an empty or partially empty tank.

Typical Installation



Installing the water heater.

Electrical Connections

DO NOT turn on the electrical supply or operate this water heater unless it is completely full of water.

A separate branch circuit with copper conductors, over current protective device and suitable disconnecting means must be provided by a qualified electrician.

All wiring must conform to local codes or latest edition of National Electrical Code ANSI/NFPA 70.

Check rating plate of water heater against supply for the correct voltage. The water heater is completely wired internally from the factory to the field connection terminal block. Refer to the wiring diagrams on page 12 for all configurations.

The voltage requirements and wattage load for the water heater are specified on the rating plate on the front of the water heater.

The branch circuit wiring should include either:

- 1** Metallic conduit or metallic sheathed cable approved for use as a grounding conductor and installed with fittings approved for the purpose.
- 2** Non-metallic sheathed cable, metallic conduit or metallic sheathed cable not approved for use as a ground conductor shall include a separate conductor for grounding. It should be attached to the ground terminals of the water heater and the electrical distribution box.

⚠ CAUTION: The presence of water in the piping and water heater does not provide sufficient conduction for a ground. Non-metallic piping, dielectric unions, flexible connectors etc. can cause the water heater to be electrically isolated.

Branch Circuit Sizing and Wire Size Guide

Single Phase Wiring

Total Water Heater Wattage	Recommended Over Current Protection (Fuse or circuit breaker amperage rating)					Copper Wire Size AWG Based on NE.C. Table 310-16 (75°C)				
	208V	240V	277V	415V	480V	208V	240V	277V	415V	480V
3,000	20	20	15	15	15	12	12	14	14	14
4,000	25	25	20	15	15	10	10	12	14	14
4,500	30	25	25	15	15	10	10	10	14	14
5,000	30	30	25	15	15	10	10	10	14	14
5,500	35	30	25	15	15	8	10	10	14	14
6,000	40	35	30	20	20	8	8	10	12	12
8,000	50	45	40	25	25	8	8	8	10	10
9,000	60	50	45	25	25	6	8	8	10	10
10,000	70	60	50	30	30	6	6	8	10	10
11,000	70	60	50	30	30	4	6	8	10	10
12,100	80	70	60	35	35	4	6	6	8	8

3 Phase Wiring

Total Water Heater Wattage	Recommended Over Current Protection (Fuse or circuit breaker amperage rating)					Copper Wire Size AWG Based on NE.C. Table 310-16 (75°C)				
	208V	240V	277V	415V	480V	208V	240V	277V	415V	480V
3,000	20	20	-	15	15	12	12	-	14	14
4,000	25	25	-	15	15	10	10	-	14	14
4,500	30	25	-	15	15	10	10	-	14	14
5,000	30	30	-	15	15	10	10	-	14	14
5,500	35	30	-	15	15	8	10	-	14	14
6,000	40	35	-	20	20	8	8	-	12	12
8,000	50	45	-	25	25	8	8	-	10	10
9,000	50	50	-	25	25	8	8	-	10	10
10,000	60	50	-	30	30	6	8	-	10	10
11,000	60	50	-	30	30	6	8	-	10	10
12,100	70	50	-	35	35	6	6	-	8	8

⚠ DANGER: Elements should only be replaced with an element of the same power rating that was factory installed, and corresponds to the rating label on the unit.

NOTICE: This guide recommends minimum branch circuit sizing and wire size based on National Electric Code. Refer to wiring diagrams in this manual for field wiring connections.

Installing the water heater.

Branch Circuit Sizing and Wire Size Guide, For MELD 75, 85, and 105 Models

NOTICE: This guide recommends minimum branch circuit sizing and wire size based on National Electric Code. Refer to wiring diagrams in this manual for field wiring connections.

208 Volt Rated Water Heaters

Factory Shipped Rating			Potential Field Conversion
Volts	208		208
Operation	SIM		NONSIM
Phase	1-PH	3-PH	1-PH & 3-PH
Rating	12100	12100	6050
AMP	58	50	29
OCPD	80	70	40
Wire	4	6	8

240 Volt Rated Water Heaters

Factory Shipped Rating			Potential Field Conversion			
Volts	240		240	208	208	
Operation	SIM		NONSIM	SIM	NONSIM	
Phase	1-PH	3-PH	1-PH & 3-PH	1-PH	3-PH	1-PH & 3-PH
Rating	12100	12100	6050	9080	9080	4540
AMP	50	44	25	44	38	22
OCPD	70	60	35	60	50	30
Wire	6	6	8	6	8	10

277 Volt Rated Water Heaters

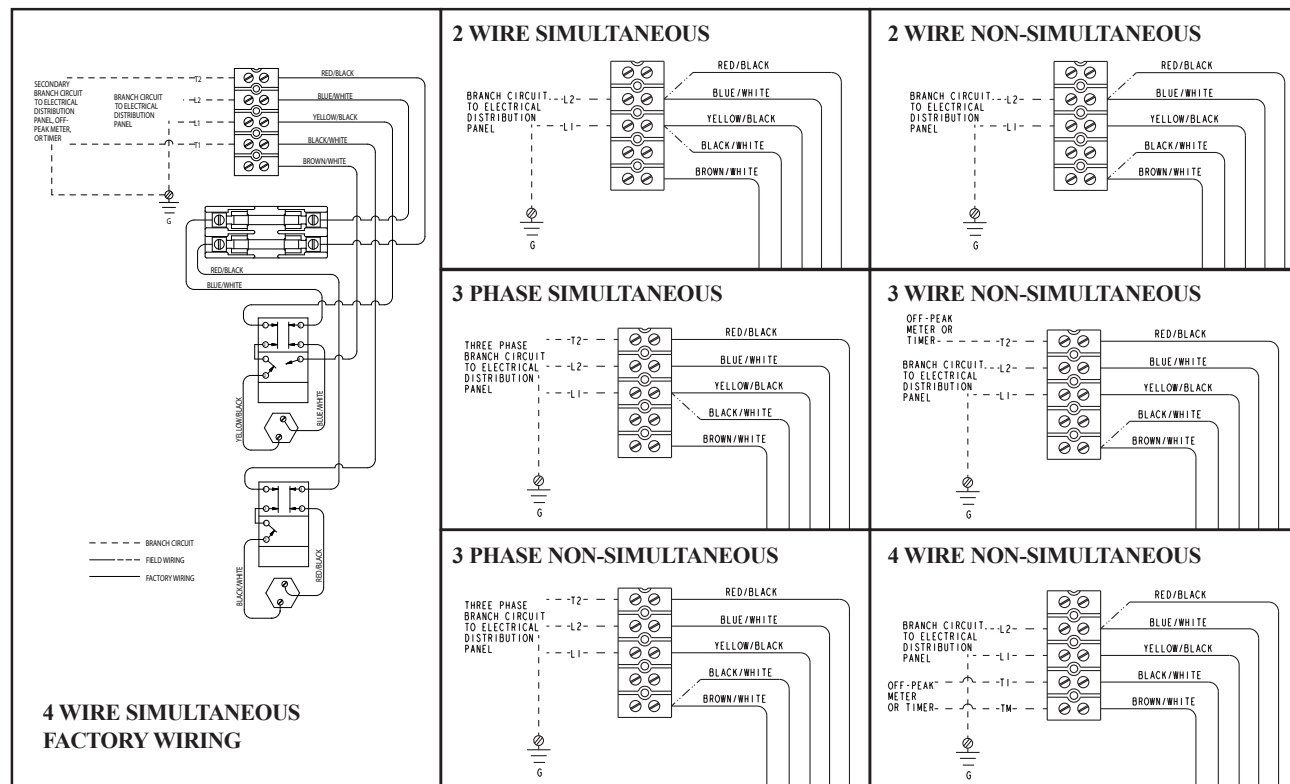
Factory Shipped Rating			Potential Field Conversion						
Volts	277		277	240	240	208	208		
Operation	SIM		NONSIM	SIM	NONSIM	SIM	NONSIM		
Phase	1-PH	3-PH	1-PH & 3-PH	1-PH	3-PH	1-PH & 3-PH	1-PH	3-PH	1-PH & 3-PH
Rating	12100	12100	6050	9080	9080	4540	6820	6820	3410
AMP	44	38	22	38	33	19	33	29	16.5
OCPD	60	50	30	50	45	25	45	35	20
Wire	6	8	10	8	8	10	8	8	12

480 Volt Rated Water Heaters

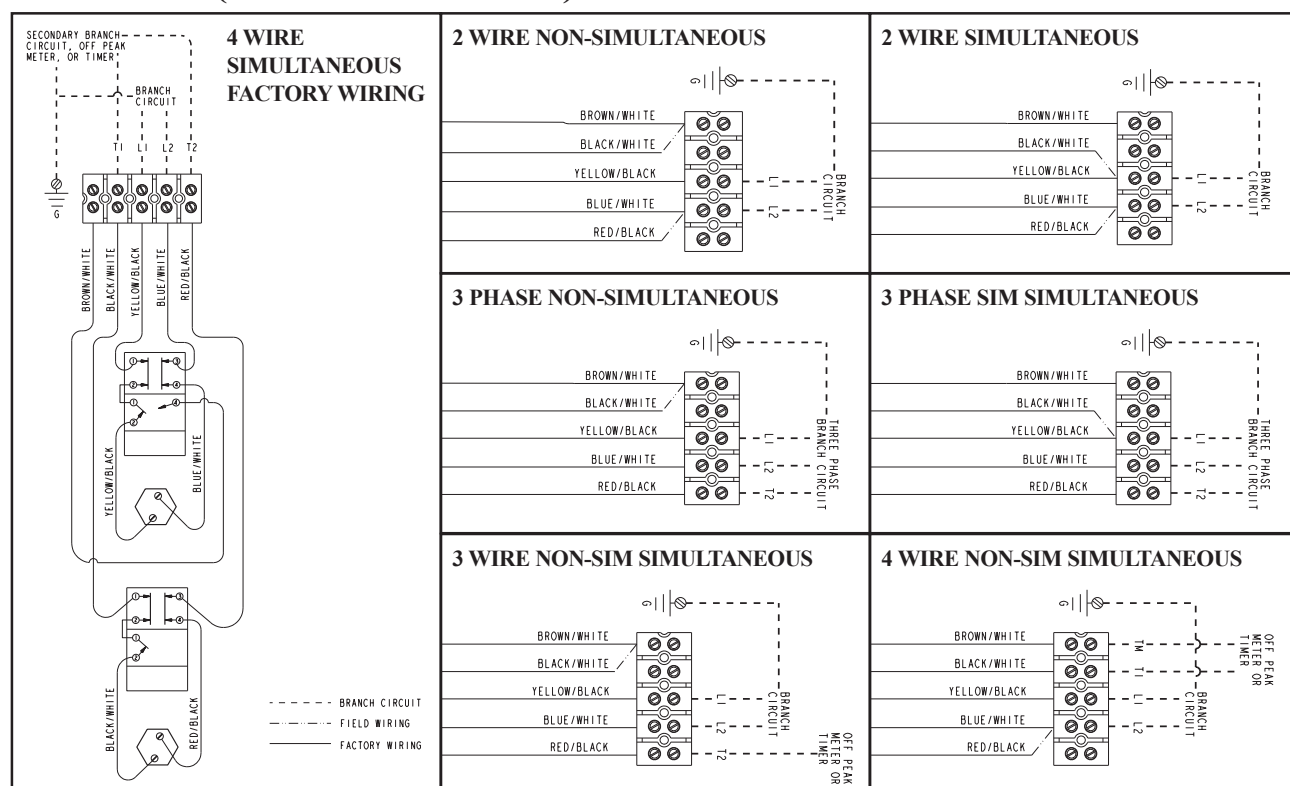
Factory Shipped Rating			Potential Field Conversion
Volts	480		480
Operation	SIM		NONSIM
Phase	1-PH	3-PH	1-PH & 3-PH
Rating	12100	12100	6050
AMP	25.2	22	12.6
OCPD	35	30	20
Wire	8	10	12

Wiring Diagrams.

Fused (208 - 240 Volts)



Non-Fused (277- 415 - 480 Volts)



Installing the water heater.

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

Insulation Blankets

Insulation blankets, available to the general public, for external use on electric water heaters are not necessary. The purpose of an insulation blanket is to reduce the standby heat loss encountered with storage tank heaters. This water heater meets or exceeds the National Appliance Energy Conservation Act standards with respect to insulation and standby loss requirements making an insulation blanket unnecessary.

The manufacturer's warranty does not cover any damage or defect caused by 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 may endanger life and property.

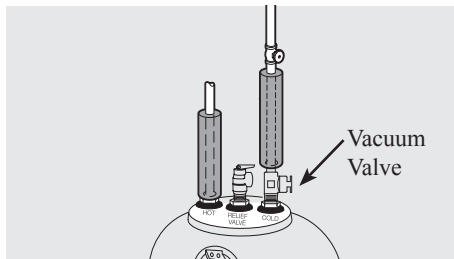
The manufacturer disclaims any responsibility for such loss or injury resulting from the use of such unauthorized devices.

⚠ CAUTION: If local codes require the application of an external insulation blanket to this water heater, 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 relocate them on the exterior of 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), vacuum valve, or pressure and temperature relief valve.
- Inspect the insulation blanket frequently.

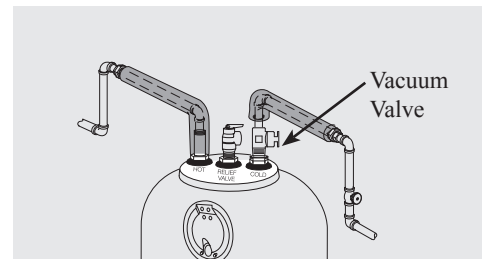
Hot and Cold Pipe Insulation Installation

NOTICE: **DO NOT** cover or block opening on vacuum valve



Typical vertical piping arrangement

For increased energy efficiency, some water heaters have been supplied with two 24" sections of pipe insulation.



Typical horizontal piping arrangement

Please install the insulation, according to the illustrations above, that best meets your requirements.

Installation Checklist

A. Water Heater Location

- ☐ Close to area of heated water demand.
- ☐ Indoors and protected from freezing temperatures.
- ☐ Area free of flammable vapours.
- ☐ Provisions made to protect area from water damage.
- ☐ Sufficient room to service heater.

B. Water Supply

- ☐ Water heater completely filled with water.
- ☐ Air purged from water heater and piping.
- ☐ Water connections tight and free of leaks.

C. Relief Valve

- ☐ Temperature and Pressure Relief Valve properly installed and discharge line run to open drain.
- ☐ Discharge line protected from freezing.

D. Wiring

- ☐ 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.

Operating the water heater.

Safety Precautions

- A** **DO** turn off power to water heater if it has been subjected to over heating, fire, flood, physical damage.
- B** **DO NOT** turn on water heater unless it is filled with water.
- C** **DO NOT** turn on water heater if cold water supply shut-off valve is closed.
- D** If there is any difficulty in understanding or following the Operating Instructions or the Care and Cleaning section, it is recommended that a qualified person or serviceman perform the work.
- E** The unit must be completely filled with water before turning on the power.

NOTICE: It is important that the fiberglass insulation is replaced to maintain water heater's performance.

Safety Controls

The water heater is equipped with two combination thermostat and temperature limiting controls (ECO) that is located above the heating element in the upper and lower control boxes. If for any reason the water temperature becomes excessively high, the temperature limiting control (ECO) breaks the power circuit to the heating element. Once the control opens, it must be reset manually.

⚠ CAUTION: The cause of the high temperature condition must be investigated by qualified service technician and corrective action must be taken before placing the water heater in service again.

To reset the temperature limiting control:

- 1** Turn off the power to the water heater.
- 2** Remove the jacket access panel(s) and insulation from the upper and/or lower control boxes.

The thermostat protective cover should not be removed.
- 3** Press the red RESET button.
- 4** Replace the insulation and jacket access panel(s) before turning on the power to the water heater.

⚠ DANGER: There is a hot water scald potential if the thermostat is set too high. Locations with small children, disabled, or elderly persons may require a 120°F (49°C) or lower thermostat setting to prevent contact with HOT water.

⚠ DANGER: The water heater will experience the highest water temperatures the first time the unit is operated as it is conditioned and the temperature stabilizes.

Water Temperature Setting

The temperature of the water in the water heater can be regulated by setting the temperature dial of the adjustable surface mounted thermostat(s) located behind the jacket access panel(s).

Dual element heaters have two thermostats.

Safety and energy conservation are factors to be considered when selecting the water temperature setting of the water heater's thermostat(s). The lower the temperature setting, the greater the savings in energy and operating costs.

To comply with industry standards the thermostat(s) are factory set at 120°F or less where local codes require. These are the recommended starting points.

Contact (such as at the water use fixture) with water temperatures above 125°F (51°C) can cause severe burns or death from scalding. Be sure to read and follow

the warnings outlined in this manual and on the label on the water heater. This label is located on the water heater near the thermostat access panel.

Mixing valves are recommended for reducing point of use water temperature by mixing hot and cold water in branch water lines. It is recommended that a mixing valve complying with the Standard for Temperature Actuated Mixing Valves for Hot Water Distribution Systems, ASSE 1017 be installed. See page 3 for more details and contact a licensed plumber or the local plumbing authority for further information.

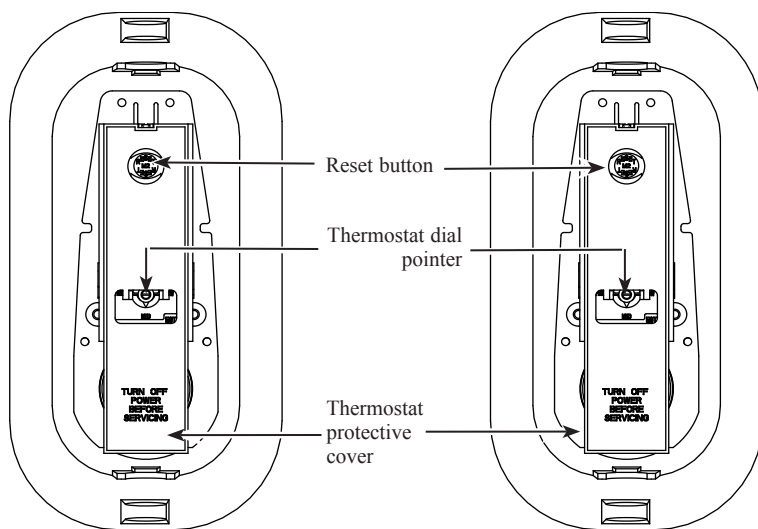
The chart on the next page may be used as a guide in determining the proper water temperature for your installation location.

If adjustment is necessary...

⚠ WARNING: If the water heater has been subjected to fire, flood, or physical damage, turn off power to water heater, and **DO NOT** operate the water heater again until it has been checked by a qualified service technician.

To increase the water temperature, it is recommended to adjust the bottom thermostat only.

To decrease water temperature, all thermostats on the unit need to be adjusted to the lower setting.



Top Thermostat or Single
Thermostat Models

Bottom Thermostat

APPROXIMATE WATER TEMPERATURE		
SETTING	TOP	BOTTOM
LOW	80°F (27°C)	110°F (43°C)
MED	110°F (43°C)	140°F (60°C)
HIGH	140°F (68°C)	170°F (82°C)

It is important that the fiberglass insulation is replaced to maintain water heater's performance and safety.

NOTICE: **DO NOT** use this appliance if any part has been under water. Immediately call a qualified installer or service agency to replace a flooded water heater. **DO NOT** attempt to repair the unit! It must be replaced.

- 1 Turn off the power to the water heater.

⚠ DANGER: Make certain power to the water heater is "OFF" before removing any jacket access panel for any reason. Failure to do so could result in property damage, bodily injury, or death.

- 2 Remove the snap-in access panel cover. Insert finger into latch hole on the bottom of the cover and push up to release the latch. Pull forward and remove the cover and insulation.
- 3 Remove the (4) screws that secure the jacket access panel to the unit. Remove the jacket access panel and insulation exposing the thermostats. Use care when removing insulation pads.
- 4 The thermostat protective cover should not be removed.
- 5 Using a small screwdriver, set the thermostat dial pointer to the desired temperature by turning the screw. **DO NOT** pry or move the white plastic pointer.
- 6 Replace the rectangular insulation and thermostat access panel. Secure the panel to the unit using the (4) screws provided. Tighten the screws until only snug.
- 7 Replace the access panel cover and insulation and snap in position.
- 8 Turn on the power to the water heater.

Time/Temperature Relationship in Scalds

Temperature	Time To Produce a Serious Burn
120°F (49°C)	More than 5 minutes
125°F (51°C)	1½ to 2 minutes
130°F (54°C)	About 30 seconds
135°F (57°C)	About 10 seconds
140°F (60°C)	Less than 5 seconds
145°F (63°C)	Less than 3 seconds
150°F (66°C)	About 1½ seconds
155°F (68°C)	About 1 second

Table courtesy of Shriners Burn Institute

Care and cleaning of the water heater.

Draining the Water Heater

NOTICE: Additional instructions for draining the unit are located on the water heater.

Please reference the "To Fill the Water Heater" section (see page 8) for instructions on how to refill the unit.

- 1** Shut off power to the water heater.
- 2** Open a hot water faucet nearest the water heater. Run water until cold.
- 3** Turn off the cold water supply to the water heater.
- 4** Leave the hot water faucet open.
- 5** Attach a garden hose to the drain valve on the bottom of the water heater and direct the hose to a drain.
- 6** Lift open the handle on the relief valve, and leave open. (top center fitting on water heater) (some water may be released)
- 7** Open the drain valve.
- 8** Drain water heater completely.
- 9** Close the drain valve.
- 10** Close the relief valve.

⚠ DANGER: Before manually operating the relief valve, make certain no one will be exposed to the danger of coming in contact with the hot water released by the valve. The water may be hot enough to create a scald hazard. The water should be released into a suitable drain to prevent injury or property damage.

NOTICE: If the temperature and pressure relief valve on the hot water heater discharges periodically, this may be due to thermal expansion in a closed water system. Contact the water supplier or your plumbing contractor on how to correct this. **DO NOT** plug the relief valve outlet.

Routine Preventative Maintenance

Properly maintained, your water heater will provide years of dependable trouble-free service.

It is suggested that a routine preventive maintenance program be established and followed by the user.

It is further recommended that a periodic inspection of the operating controls, heating elements and wiring should be made by service personnel qualified in electric appliance repair.

Most electrical appliances, even when new, make some sound when in operation. If the hissing or singing sound level increases excessively, the electric heating element may require cleaning. Contact a qualified installer or plumbing contract to inspect.

At least once a year, lift and release the lever handle on the temperature pressure relief valve, located near the top of the water heater, to make certain the valve

operates freely. Allow several gallons to flush through the discharge line to an open drain.

A water heater's tank can act as a settling basin for solids suspended in the water. It is therefore not uncommon for hard water deposits to accumulate in the bottom of the tank. It is suggested that a few quarts/ liters of water be drained from the water heater's tank every month to clean the tank of these deposits.

Rapid closing of faucets or solenoid valves in automatic water using appliances can cause a banging noise heard in a water pipe. Strategically located risers in the water pipe system or water hammer arresting devices can be used to minimize the problem.

Water conditions can cause mineral deposits to build up inside pipes. This buildup can reduce the effectiveness of the vacuum relief valve. The vacuum relief valve should be replaced every six years.

Vacation and Extended Shut-Down

If the water heater is to remain idle for an extended period of time, the power and water to the appliance should be turned off to conserve energy.

If the water heater is installed in a location where it could freeze when not operational, all water must be drained from the unit and piping. If the tank is full of water and freezes, the tank will break. See the "Draining the Water Heater"

section for details on draining the unit. Freeze damage is not covered under the manufacturer's warranty.

After a long shut-down period, the water heater's operation and controls should be checked by qualified service personnel. Make certain the water heater is completely filled again before placing it in operation.

Before You Call For Service...



Troubleshooting Tips

Save time and money! Review the chart on this page first and you may not need to call for service.

Problem	Possible Causes	What to Do
Rumbling noise	Water conditions in your location caused a build up of scale or mineral deposits on the heating elements.	Remove and clean the heating elements. Contact a qualified service technician.
Relief valve producing popping noise or draining	Pressure build up caused by thermal expansion in a closed system.	This is an unacceptable condition and must be corrected. Contact the water supplier or plumbing contractor on how to correct this. DO NOT plug the relief valve outlet.
Not enough or no hot water	Water usage may have exceeded the capacity of the water heater.	Wait for the water heater to recover after an abnormal demand.
	A fuse is blown or a circuit breaker tripped.	Replace fuse or reset circuit breaker.
	Electric supply may be off.	Make sure electric supply to water heater and disconnect switch, if used, are in the ON position.
	The thermostat may be set too low.	See the Temperature regulation of the water heater section of this manual.
	Leaking or open hot water faucets.	Make sure all faucets are closed.
	Electric service to your location may be interrupted.	Contact the local electric utility.
	Improper wiring.	See the Installing the water heater section of this manual.
	Manual reset limit (ECO).	See the Temperature regulation of the water heater section of this manual.
	Cold water inlet temperature may be colder during the winter months.	This is normal. The colder inlet water takes longer to heat.
	Top element defective (no hot water)	Replace element.
Water is too hot	Bottom element defective (small quantity of hot water)	Replace element.
	The thermostat is set too high.	See the Temperature regulation of the water heater section of this manual.
	Covers and / or insulation missing.	Reinstall covers and insulation.

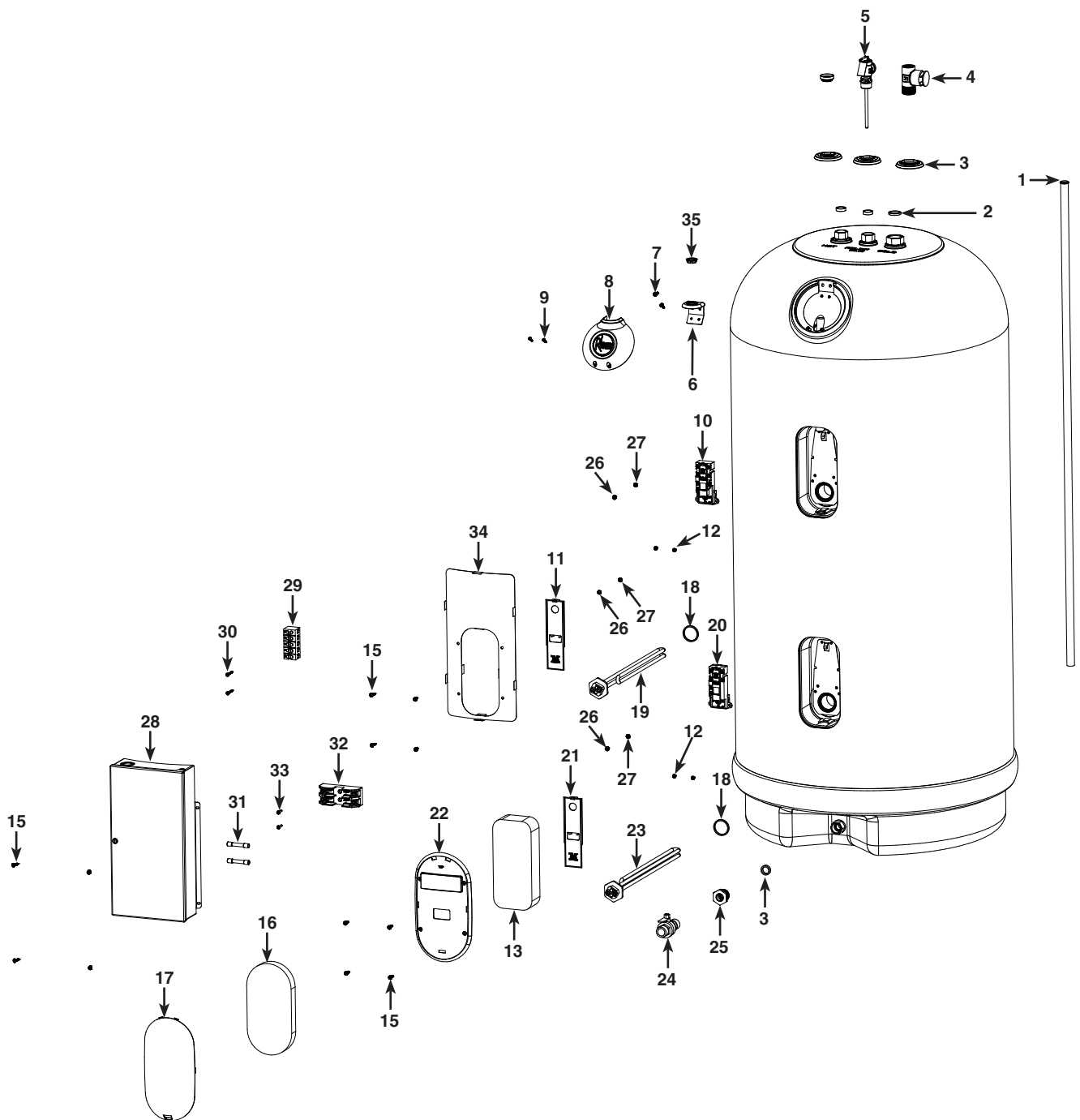
⚠CAUTION: For your safety **DO NOT** attempt repair of electrical wiring, thermostats, heating elements or other safety devices. Refer repairs to qualified service personnel.

Replacement Parts.

Key No.	Description
1	Dip Tube
2	Grommet, Large
	Grommet, Small
3	Seal Ring, Large
	Seal Ring, Small
4	Vacuum Valve Assembly
5	Temperature and Pressure Relief Valve
6	Knock-Out Bracket
7	Screw, #8 x 3/4"
8	Junction Box Cover
9	Screw #8-16 x 5/8"
10	Upper Thermostat
11	Upper Protector
12	Screw, #10-16 x 5/8"
13	Thermostat Cavity Insulation
14	Upper Access Panel
15	Screw, #10-16 x 5/8"
16	Access Panel Cover Insulation
17	Access Panel Cover
18	Element Gasket
19	Upper Heating Element (Includes Key No. 18)
20	Lower Thermostat
21	Lower Protector
22	Lower Access Panel
23	Lower Heating Element (Includes Key No. 18)
24	Drain Valve
25	Reducer Bushing, 3/4" NPT x 1" NPT
26	5/16-18 Cap Screw
27	Lock Washer
28	Electrical Enclosure
29	Terminal Block
30	Screw, #8-18 x 1-1/4
31	35 Amp Fuse
32	Fuse Holder
33	Screw, #8 x 3/4" Self Drilling
34	Backplate
35	Seal, Knockout
▲	Element Wrench
▲	Pipe Wrap Energy Kit
▲	Use and Care Manual
▲	Not Illustrated

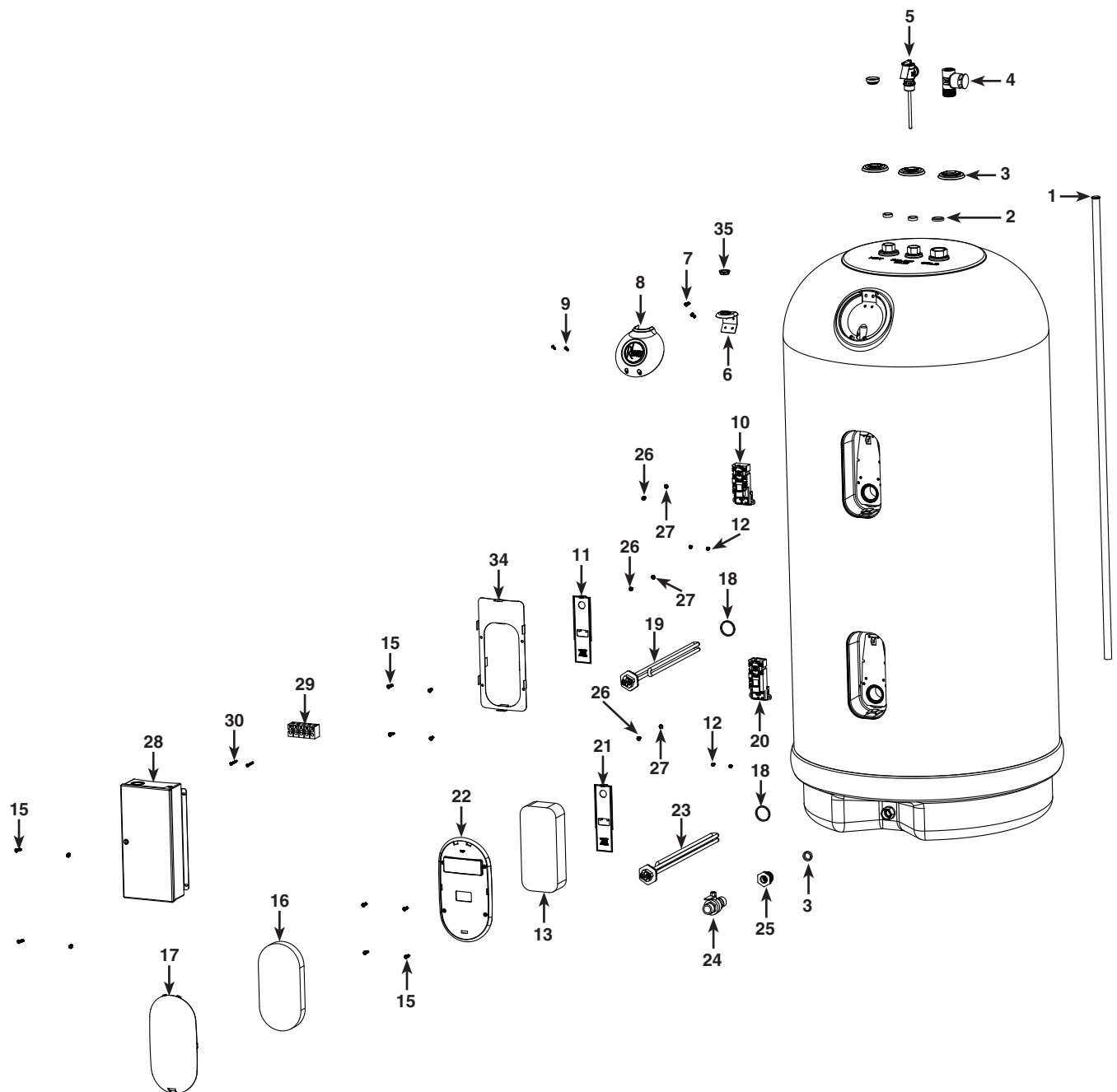
Replacement Parts.

208 - 240 Volts

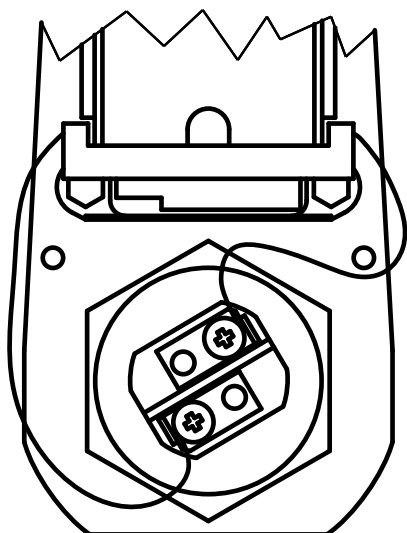


Replacement Parts.

277 - 415 - 480 Volt.



Element Replacement Instructions



75 - 85 - 105 GALLON

1. Turn off power to the unit.

⚠ DANGER: Make certain power to the water heater is “OFF” before removing any jacket access panel for any reason. Failure to do so could result in property damage, bodily injury, or death.

2. Open a hot water faucet and allow water to flow until the water is cold.
3. Empty the water out of the unit by following the instructions given in the “Draining the Water Heater” section (see page 16) of this manual.
4. Remove the snap-in access panel cover. Insert finger into latch hole on the bottom of the cover and push up to release the latch. Pull forward and remove the cover and insulation.
5. Remove the (4) screws that secure the jacket access panel to the unit. Remove the jacket access panel and insulation exposing the thermostat and element. Use care when removing the insulation pads.
6. Flip up the bottom of the plastic protector up to expose the head of the heating element.
7. Loosen the terminal screws on the element to disconnect the two wires and slightly bend them away from the element.
8. Using a wrench or socket to fit the 1 7/8 inch hex nut, remove the old element.

NOTICE: An element wrench is available for purchase through your water heater distributor.

NOTICE: Make sure the threads on the unit are clean. Brush debris off of threads with a toothbrush if needed.

NOTICE: The elements are unique to the upper and lower port. Make certain the replacement element is correct for the port into which you are installing it.

9. On the new element make certain the element gasket is in place and not twisted.
10. Thread the new element into the tank and tighten with a wrench or socket to 13 – 15 ft-lbs.
NOTICE: **DO NOT** over tighten the element. **DO NOT** apply torque over 18 ft-lbs.
11. Reconnect the two wires to the element and tighten the terminal screws.
12. Reference the “To Fill the Water Heater” section of this manual for instructions on refilling the unit.
13. After the unit is completely filled with water and under pressure, verify the element is properly installed with no water leakage.
14. Lower the protector to cover the head of the heating element.
15. Replace the rectangular insulation and thermostat access panel. Secure the panel to the unit using the (4) screws provided. Tighten the screws until only snug.
16. Replace the access panel cover and insulation and snap in position.
17. Turn on power to the water heater.

LIMITED WARRANTY

Marathon Electric Water Heaters

EXCLUSIVE WARRANTY – LIMITATION OF LIABILITY

This Limited Warranty is the only Warranty for this unit given by Rheem Sales Co. Inc., a subsidiary of Rheem Manufacturing Company. No one is authorized to make any other warranties on our behalf. ANY IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE APPLICABLE WARRANTY PERIODS SPECIFIED PREVIOUSLY. RHEEM'S SOLE LIABILITY, WITH RESPECT TO ANY DEFECT, SHALL BE AS SET FORTH IN THIS LIMITED WARRANTY, AND ANY CLAIMS FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGE FROM WATER LEAKAGE) ARE EXCLUDED. Some states DO NOT allow limitations on how long an implied warranty lasts, or for the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This Limited Warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

We suggest you immediately complete the information below and retain it in the event warranty service is needed. Reasonable proof of the date of installation of your water heater may be required to establish its "in-warranty" status. Otherwise, the Effective Date of this Limited Warranty will be the date of manufacture of the water heater plus ninety (90) days.

GENERAL

Rheem Sales Co. Inc., Inc. warrants its products to be free from factory defects in materials and workmanship, under normal use and service, for the Applicable Warranty Period. At its option, Rheem Sales Co. Inc. will repair or replace the defective water heater, or defective component part(s), in accordance with the terms of this Limited Warranty, if it fails in normal use and service during the Applicable Warranty Period. The replacement water heater must be manufactured by Rheem Sales Co. Inc.. The replacement component part(s) must be Rheem Sales Co. Inc. authorized component part(s). The replacement unit will be warranted only for the unexpired portion of the original unit's Applicable Warranty Period.

WARRANTY EXCLUSIONS

This Limited Warranty will **not** cover:

- a) Service trips to your installation location to teach you how to install, use, or maintain this water heater or to bring the water heater installation into compliance with local building codes and regulations.
- b) 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.
- c) Damages, malfunctions, or failures resulting from improper installation or failure to operate and maintain the water heater in accordance with the manufacturer's instructions provided.
- d) Performance problems caused by improper sizing of the water heater or electric service voltage, wiring, or fusing.
- e) Damages, malfunctions, or failures caused by operating the water heater with modified, altered, or unapproved parts installed.
- f) Damages, malfunctions, or failures caused by abuse, accident, fire, flood, freeze, lightning, acts of God, and the like.
- g) Tank failures (leaks) caused by operating the water heater in a corrosive or contaminated atmosphere.
- h) Damages, malfunctions, or failures caused by operating the water heater with an empty, or partially empty, tank (also known as "dry firing").
- i) Damages, malfunctions, or failures caused by operating the unit at water temperatures exceeding the maximum setting of the operating, or high limit, control.
- j) Tank failures caused by operating the water heater when it is not supplied with potable water, free to circulate at all times.
- k) Damages, malfunctions or failures caused by subjecting the tank to pressures greater than those shown on the rating label.
- l) Damages, malfunctions or failures resulting from the use of any attachment, including any energy saving device, not authorized by Rheem Sales Co. Inc..
- m) Units installed outside the fifty states (and the District of Columbia) of the United States of America and the provinces of Canada without prior authorization from Rheem Sales Co. Inc..
- n) Units that have had their rating labels removed. A water heater should not be operated if the rating label is removed.

LABOR, SHIPPING, AND PROCESSING COSTS

This Limited Warranty does **not** cover any **labor expenses** for service, repairs, reinstallation, permits, or removal and disposal of the failed water heater, or defective component part(s). All such expenses are your responsibility.

Rheem Sales Co. Inc. will pay the **transportation costs** for an "in-warranty" replacement water heater, or "in-warranty" replacement component part(s), to a convenient delivery point (selected by Rheem Sales Co. Inc.) near the place the original water heater, or original component part(s), is located. You must pay any local freight charges, including the cost of returning the failed water heater, or defective component part(s) to a convenient shipping location (selected by Rheem Sales Co. Inc.).

Rheem Sales Co. Inc. does **not** authorize, recommend, or receive any benefit from any **claims processing or similar fees** charged by others to process warranty claims for any Rheem Sales Co. Inc. water heater or component part(s). Rheem Sales Co. Inc. will **not** reimburse any party for these, or any other, fees not specifically covered in this Limited Warranty document.

THE EFFECTIVE DATE

The Effective Date of warranty coverage (or the beginning of the Applicable Warranty Periods) is the date of installation of the water heater, if properly documented. If you are not able to provide the documentary proof of the date of original installation, the Effective Date will be the date of manufacture of the water heater plus 90 days.

APPLICABLE WARRANTY PERIODS

Application	MELD Series	
	Tank	Parts
• A rental property; or • Installed in a commercial building	10 years	1 year
• Any agricultural application (ex dairy barn)		
• Any application where the water is used as a part of an industrial or commercial process		

HOW TO MAKE A CLAIM

Any claim for warranty assistance must be made promptly. First, determine if your water heater is “in-warranty” (that is, within the Applicable Warranty Period). You can determine your unit’s warranty status by obtaining the complete model number, the complete serial number, and the date of installation of your water heater by contacting Rheem Sales Co. Inc. Water Heaters’ Warranty Department (telephone (800) 432-8373) during normal business hours to determine if the Applicable Warranty Period has expired. If your water heater is “in-warranty”, contact the plumber, or mechanical contractor, that installed it for assistance with the warranty repairs, or replacement, required. You may also select a plumber, or mechanical contractor, from your local Yellow Pages to assist you. Rheem Sales Co. Inc. Technical Service personnel are available to assist you by telephone (800) 432-8373 to answer your questions about the operation or repair of your water heater during normal business hours. Be prepared to provide the plumber, mechanical contractor, or Rheem Sales Co. Inc.

Technical Service person you call with the complete model number, the complete serial number, and the date of installation of your water heater in addition to an explanation of your water heater problem. If an exact replacement is not available, Rheem Sales Co. Inc. will provide you with the current model of your water heater, or component part(s), or a replacement unit with comparable operating features. If government regulations or industry certification or similar standards require the replacement water heater, or replacement component part(s), to have features not found in the defective water heater, or the defective component part(s), you will be charged for the difference in price represented by those required features. If you pay the price difference for those required features and/or to upgrade the size and/or other features available on a replacement new water heater, you will also receive a complete new Limited Warranty (with the full Applicable Warranty Period) for the replacement new water heater. Rheem Sales Co. Inc. reserves the right to inspect, or require the return of, the failed water heater or the defective component part(s). Each “in-warranty” failure water heater must be made available to Rheem Sales Co. Inc. (with the rating label and all the component parts intact) in exchange for the replacement water heater. Each defective “in-warranty” component part to be replaced may be required to be returned to Rheem Sales Co. Inc. in exchange for the replacement component part. Warranty compensation is subject to validation of “in-warranty” coverage by Rheem Sales Co. Inc. Claims Department personnel.

- To obtain warranty compensation for an “in-warranty” water heater failure, you must provide Rheem Sales Co. Inc. with: (at Rheem Sales Co. Inc. option) either the failed water heater (with the rating label and all the component parts intact) or the complete original rating label (photocopies are not acceptable) removed from the failed water heater; the complete model number and the complete serial number of the Marathon water heater that replaced the failed unit; and the date the original water heater failed. You may also be required to provide documentary proof of the failed water heater’s date of installation to establish its “in-warranty” status.
- To receive warranty compensation for an “in-warranty” defective component part, you must provide WHI with: (at Rheem Sales Co. Inc. option) either the defective component part or the part number on the failed component part; the complete model number and the complete serial number of the Marathon water heater from which the defective component part was removed; and the date the defective component part failed. You may also be required to provide documentary proof of the date of installation of the Marathon water heater from which the defective part was removed – or the date of purchase of the part (if it was purchased separately) - to establish the “in-warranty” status of the defective component part.

Warranty claim documentation should be mailed promptly to Rheem Sales Co. Inc., Warranty Department,
Rheem Sales Co. Inc.
800 Interstate Park Drive
Montgomery, AL 36109

FOR YOUR RECORDS

Owner Information		
Name	Address	
Plumber / Mechanical Contractor – Installer Information		
Name	Address	Telephone Number
Water Heater Information		
Model Number	Serial Number	Date of Installation

How to Register Your Product:

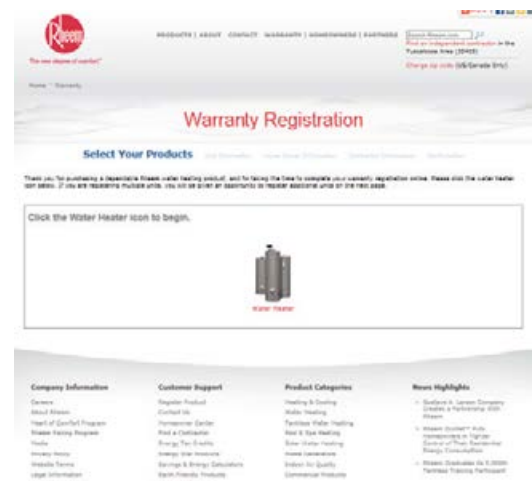
Step 1:

1. Go to www.rheem.com/warranty
2. Click Start Registration



Step 2:

1. Click on the Water Heater icon to begin.



How to Register Your Product:

Step 3:

1. Enter the fields on the screen
 - Warranty Type choices are
 - Standard
 - Protection Plus Kit Installed
 - For Marathon products, always select:
 - Standard
 - Install Date is captured but not used to change the warranty periods. Registration uses manufacturing date. The owner of the water heater is still required to provide proof of purchase/ownership at the time of claim if the install date is after the registration date.
 - Property type choices are:
 - Residential
 - Business
2. Click Next

The screenshot shows the 'Unit Information' section of the Rheem Warranty Registration form. It includes fields for 'Water Heater' (with a dropdown menu), 'Serial Number', 'Install Date (MM/DD/YYYY)', 'Warranty Type' (with a dropdown menu), and 'Property Type' (with a dropdown menu). A 'Next' button is visible at the bottom right. The page also features a navigation bar at the top with links for 'PRODUCTS', 'ABOUT', 'CONTACT', 'WARRANTY', 'INSTALLATION', and 'PARTNERS'. A sidebar on the left contains links for 'Company Information', 'Customer Support', 'Product Categories', and 'News Highlights'.

Step 4:

1. Enter contractor information if it is available.
2. Click Next

The screenshot shows the 'Contractor Information' section of the Rheem Warranty Registration form. It includes fields for 'Plumber Information (Plumber address not required)', 'Company Name', 'Contractor Name', 'Contractor Last Name', 'Address Line 1', 'Address Line 2', 'City', 'State', 'Postal Code', 'Phone Number', and 'License Number'. A 'Next' button is visible at the bottom right. The page also features a navigation bar at the top with links for 'PRODUCTS', 'ABOUT', 'CONTACT', 'WARRANTY', 'INSTALLATION', and 'PARTNERS'. A sidebar on the left contains links for 'Company Information', 'Customer Support', 'Product Categories', and 'News Highlights'.

Step 5:

1. Review confirmation page and make any necessary edits. Once verified click **Finish**.

Notice the disclaimer at the bottom that explains the proof of purchase/owner is required at the time of claim if install date is greater than manufacture date.

The screenshot shows the 'Confirmation' page of the Rheem Warranty Registration process. It displays the 'Product Registration Confirmation' details, including 'Owner Information' (Name, Address, City, State, Zip), 'Unit Information' (Manufacture Date, Model Number, Serial Number), and 'Standard Warranty Type'. A disclaimer at the bottom states: 'If the owner of a Rheem Water Heating product cannot provide documentary proof of the date of installation, the date of manufacture must be used to determine the warranty status of the product. The date of manufacture is contained in the water heater's serial number.' A 'Finish' button is visible at the bottom right.

Step 6:

1. You will receive a confirmation email. Notice the same disclaimer appears on the confirmation email

The screenshot shows the 'Product Registration Confirmation' email from Rheem. It includes the 'Owner Information' (Name, Address, City, State, Zip), 'Plumber Information' (Name), and 'Unit Information' (Manufacture Date, Model Number, Serial Number). A disclaimer at the bottom states: 'If the owner of a Rheem Water Heating product cannot provide documentary proof of the date of installation, the date of manufacture must be used to determine the warranty status of the product. The date of manufacture is contained in the water heater's serial number and shown above.' The email also includes a 'Thank you. Your water heater is now registered.' message.

IF YOU NEED SERVICE



1. Should you have any questions about your new storage tank, or if it requires repair, or routine maintenance, it is suggested that you first contact your installer, plumbing contractor or previously agreed upon service agency. In the event the firm has moved, or is unavailable, refer to the telephone directory, commercial listings or local utility for qualified service assistance.
2. Should your problem not be solved to your complete satisfaction, you should then contact the Manufacturer's National Service Department at the following address:

Rheem Sales Co. Inc.
800 Interstate Park Drive
Montgomery, Al. 36109

When contacting the manufacturer, the following information will be requested:

- a. Model and serial number of the storage tank as shown on the rating plate attached to the jacket of the unit.
- b. Address where the storage tank is located and physical location of installation.
- c. Name and address of installer and any service agency who performed service on the storage tank.
- d. Date of original installation and dates any service work was performed.
- e. Details of the problems as you can best describe them.
- f. List of people, with dates, who have been contacted regarding your problem.

Additional service information can be found at www.rheem.com.