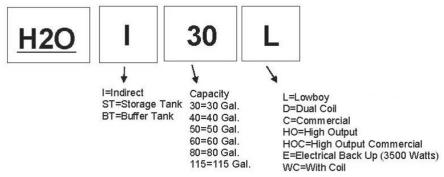


# H<sub>2</sub>O

## HOT WATER STORAGE/ BOOSTER TANKS

For Single Tank Installations

# INSTALLATION, OPERATION & MAINTENANCE MANUAL





#### Intertek

Conforms to UL STD 174 Certified to CAN/CSA STD C22.2 No. 110-94

Information and specifications outlined in this manual in effect at the time of printing of this manual. ECR International reserves the right to discontinue, change specifications or system design at any time without notice and without incurring any obligation, whatsoever.

#### ECR International, Inc.

2201 Dwyer Avenue, Utica NY 13501 web site: www.ecrinternational.com

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#### I. General Information

#### **IMPORTANT INFORMATION - READ CAREFULLY**

NOTE: Equipment shall be installed in accordance with those installation regulations required in the area where the installation is to be made. These regulations shall be carefully followed in all cases. Authorities having jurisdiction shall be consulted before installations are made. All wiring on water heaters shall be in accordance with the National Electrical Code and/or local regulations.

### **▲ WARNING**

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury, or loss of life. Read and understand the entire manual before attempting installation, start-up, operation, or service. Installation and service must be performed only by an experienced, skilled installer or service agency.

This water heater contains very hot water under high pressure. Do not unscrew any pipe fittings or attempt to disconnect any components of this water heater without positively assuring that the water is cool and has no pressure. Always wear protective clothing and equipment when installing, starting up or servicing this water heater to prevent scalding injuries. Do not rely on the pressure and temperature gauges to determine the temperature and pressure of the water heater. This water heater contains components that become very hot when the boiler is operating. Do not touch any components unless they are cool.

Failure to follow all instructions in the proper order can cause personal injury or death. Read all instructions, including all those contained in component manufacturers' manuals before installing, starting up, operating, maintaining, or servicing the water heater.

### **A** CAUTION

To reduce the risk of excessive pressures and temperatures in this water heater, install temperature and pressure protective equipment required by local codes but no less than a combination temperature relief valve certified by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials, as meeting the requirements for Relief Valves and Automatic Shutoff Devices for Hot Water Supply Systems, ANSI Z21.22-latest edition. This valve must be marked with a maximum set pressure not to exceed the marked working pressure of the water heater. Install the valve into an opening provide and marked for this purpose in the water heater, and orient it or provide tubing so that any discharge from the valve will exit only within 6 inches above, or at any distance below, the structural floor, and cannot contact any live electrical part. The discharge opening must not be blocked or reduced in size under any circumstances.

Heat transfer medium must be water or other non-toxic fluid having a toxicity rating or class of 1, as listed in clinical Toxicology of Commercial Products, latest edition. The pressure of the heat transfer medium must be limited to a maximum of 60 psig by a listed safety or relief valve.



DO NOT store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance. If you smell gas vapors, DO NOT try to operate any appliance - DO NOT touch any electrical switch or use any phone in the building. Immediately, call the gas supplier from a remote located phone. Follow the gas supplier's instructions or if the supplier is unavailable, contact the fire department.

#### **IMPORTANT SAFETY INSTRUCTIONS**

**WARNING** – 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 BUFFER TANK.

- **1.** This water heater must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found in Section IV.
- 2. Install or locate this water heater only in accordance with the provided installation instructions
- 3. Use this water heater only for its intended use as described in this manual.
- **4.** 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.
- **5.** As with any appliance, close supervision is necessary when used by children.
- **6.** Do not operate this water heater if it has damaged connections or plug, if it is not working properly, or if it has been damaged or dropped.
- **7.** This water heater should be serviced only by qualified personnel. Contact nearest authorized service facility for examination, repair, or adjustment.

#### **Hazard Definitions**

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

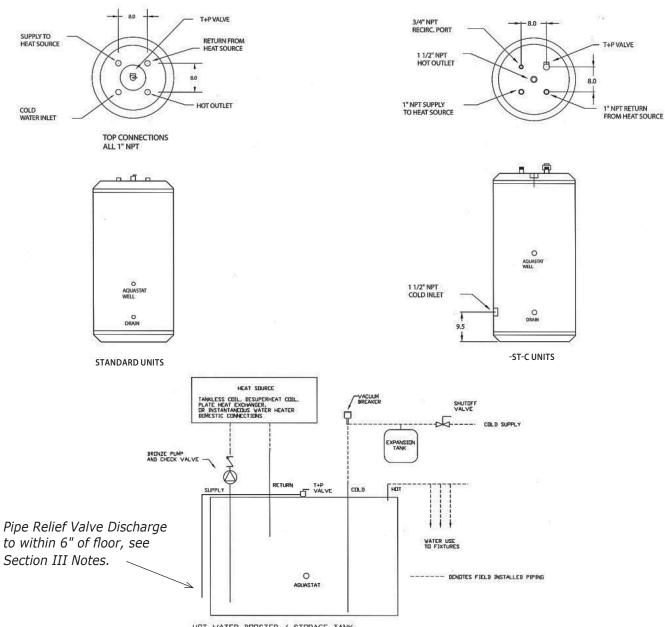
**A DANGER** Indicates a presence of hazards that will cause severe personal injury, death or substantial property damage.

▲ WARNING Indicates the presence of hazards that can cause severe personal injury, death or substantial property damage.

**ACAUTION** Indicates presence of hazards that will or can cause minor personal injury or property damage.

**NOTICE** Indicates special instructions on installation, operation or maintenance that are important but not related to personal injury or property damage.

#### **HOT WATER BOOSTER / STORAGE TANKS**



| HOT WATER     | BOOSTER / S | TORAGE TAN | K        |           |
|---------------|-------------|------------|----------|-----------|
| DOMESTIC WA   | TER HEATING | SYSTEM /   | TYPICAL  | SCHEMATIC |
| Note: Install | lation must | conform to | all loca | l codes.  |

| Model     | Storage<br>Volume |      | nsions<br>hes) | Piping Connections |                              | Max.<br>Working<br>Pressure | Approx.<br>shipping<br>Wt. |
|-----------|-------------------|------|----------------|--------------------|------------------------------|-----------------------------|----------------------------|
|           | Gals.             | Ht.  | Dia.           | Cold/Hot<br>In/Out | Heat Source<br>Supply/Return | (psi)                       | Lbs.                       |
| H2O30ST   | 30                | 34.0 | 23.5           | 1                  | 1                            | 150                         | <i>75</i>                  |
| H2O40ST   | 40                | 44.0 | 23.5           | 1                  | 1                            | 150                         | 90                         |
| H2O40LST  | 42                | 36.0 | 28.0           | 1                  | 1                            | 150                         | 90                         |
| H2O60ST   | 60                | 62.0 | 23.5           | 1                  | 1                            | 150                         | 115                        |
| H2O60LST  | 60                | 46.0 | 28.0           | 1                  | 1                            | 150                         | 110                        |
| H2080ST   | 80                | 56.0 | 28.0           | 1                  | 1                            | 150                         | 140                        |
| H2O80STC  | 80                | 56.0 | 28.0           | 1 ½                | 1                            | 150                         | 140                        |
| H2O115ST  | 115               | 74.0 | 28.0           | 1                  | 1                            | 150                         | 175                        |
| H2O115STC | 115               | 74.0 | 28.0           | 11/2               | 1                            | 150                         | 175                        |

Fully insulated stainless steel tanks, including L4080B limit. Brass drain and T&P valves are factory installed. Dip tubes in tank located to circulate water through heat source and return to tank.

#### II. Pre-installation Considerations

Inspect shipment carefully for signs of damage. All equipment is carefully inspected and packed. ECR's responsibility ceases upon delivery of the water heater to the carrier in good condition. Any claims for damage or shortage, must be filed immediately against the carrier by the consignee. No claims for variances or shortages will be allowed by the Manufacturer, unless they are presented within sixty days after receipt of the equipment.

Installation must conform to the requirements of the authority having jurisdiction. In the absence of such requirements, installation must conform to the National Plumbing Code and the National Electrical Code ANSI/NFPA No. 70, current edition.

#### IMPORTANT CONSIDERATIONS BEFORE INSTALLATION

#### 1. Tank sizing.

Factors that increase water demand dramatically include high flow shower heads, hot tubs, and the use of more than one shower at a time. Increase the tank size if these factors are present.

#### Consult ASHRAE sizing guides and other references.

#### **2.** Locating the water heater.

The water heater should be located in an area where water leakage from the tank or connections will not result in damage to areas adjacent to the water heater or to lower floors of the structure. When such a location can not be avoided, a suitable drain pan must be installed under the water heater, and the drain pan must be connected to a drain.

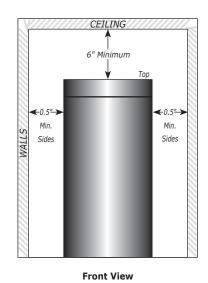
The water heater should be installed as close to the boiler as is practical for easy access for service. The unit is designed for installation on combustible flooring and in alcoves, closets, etc.

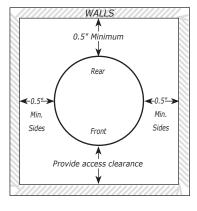
The minimum clearances from combustible surfaces are:

| Bottom 0"                        |
|----------------------------------|
| Left, right, and rear sides 0.5" |
| Front 0.5"                       |
| <i>Top</i> 6"                    |
|                                  |

The minimum clearances for service are:

| Bottom                      | 0" |
|-----------------------------|----|
| Left, right, and rear sides | 3" |
| Front                       | 6″ |
| Top                         | 6″ |





Top View

#### **3.** Additional recommended components

- A. Shut-off valves. Allows the isolation of the water heater from the boiler system during service.
- B. Unions. Allows for easy locating or removal.
- C. Vacuum breaker. Protects the water heater from collapse if a hot tank is valved off to service other components in the system.
- D. Thermal expansion tank. If the water heater is installed in a closed water supply system, such as a system having a back flow preventer in the cold water supply line, the installation of a thermal expansion tank is required.

#### **4.** Water Quality

Improper water quality will reduce the expected life of the water heater. Hard water, sediment, high or low Ph, and high levels of chlorides in the domestic water should be avoided. Sediment and hard water will eventually coat the heating coil inside the water heater and reduce the rate of hot water production and may, eventually cause a failure. High or low Ph and/or high chloride concentrations will cause corrosion and eventually failure. A filter is strongly recommended where sediment is present in the water. A water softening system is recommended for areas with hard water.

In an area where the water quality is not known, a water quality test should be performed.

#### **WARNING:**

Do not operate water heaters in areas where the Ph is above 8.0 or below 6.0, and/or with chloride concentrations greater than 100 parts per million (ppm). ECR's standard warranty does not cover problems caused by improper water Ph or excessive levels of chlorides.

#### 5. Piping

- A. Drain the domestic water system.
  - Shut off the cold water supply at the main shutoff valve.
  - Open one or more faucets to relieve the pressure. Open the system drain, leaving the faucets open.
- B. Position the water heater in the final location.
- C. Connect the cold water supply piping.
  - Install piping onto cold inlet connection. Connect to cold water supply connection using a union, a heat trap, a shut-off valve, an expansion tank (where required), a back flow preventer (where required).
- D. Connect the domestic hot water piping.

  Install piping onto hot water supply connection using a union, a heat trap, a vacuum breaker, and a shut-off valve.
- E. Pipe the relief valve discharge so that the discharge from the valve will exit only within 6 inches above, or at any distance below, the structural floor, and cannot contact any live electrical part. The discharge opening must not be blocked or reduced in size under any circumstances. Refer to local codes.
- F. Fill the water heater tank.

Open all faucets to allow air to purge from the tank and piping. Remove screens on faucets.

Open domestic hot water shut-off valve.

Open cold water inlet shut-off valve.

Purge all of the air from the domestic water system. Allow water to run so the tank is completely purged of any debris. Run the water long enough to change at least five tank volume changes. Close all faucets. Reinstall all of the screens in the faucets.

Check the system for leaks. Repair as required.

#### III. Electrical

- 1. Install electric wiring and grounding in accordance with the National Electrical code and local regulations.
- **2.** All water heaters are supplied with a thermostat.

#### **IV. Operation**

#### **Startup**

After the water heater has been plumbed and wired, and the boiler water piping is purged of air, the water heater is ready to be started.

- **1.** Follow the boiler installation instructions to place the boiler in operation.
- **2.** The tank thermostat is factory pre-set to 125 degrees F and will call for heat if the water in the tank is lower than 125.
- **3.** On a call for heat, the tank thermostat contacts close to start the water heater zone circulator and the boiler.
- **4.** After the tank has reached the temperature setting, the tank thermostat opens and de-energizes the circulator and the boiler. If there is a call for space heating, the boiler will continue to run until the room thermostats are satisfied.

#### **Temperature Adjustment**



The tank thermostat controls the maximum water temperature in the water heater. If it is set too high, the resulting hot water can cause painful scalding with possible serious and permanent injury. The temperature at which this occurs varies with a person's age, and the length of time in contact with the hot water. The slower response time of infants, older, or handicapped people increase the hazard for them.

It is recommended that the thermostat be set for the lowest possible temperature that satisfies your needs. This will also provide you with the lowest energy consumption and cost.

Check the water temperature at a hot water faucet soon after the tank thermostat has satisfied, and the circulator and the boiler have turned off. Adjust as needed.

Lowering the thermostat setting will not have an immediate effect on the water temperature because the stored water will have to be used and the thermostat must go through the cycle of heating cold water and satisfying at the new, lower temperature. Additional temperature checks should follow the completion of a heating cycle. Further adjustments may be required after you have used the water heater



#### **Hot Water Can Scald!**

Water heated to temperature for clothes washing, dish washing and other sanitizing needs can scald and cause permanent injury.

Children, elderly, and infirm or physically handicapped persons are more likely to be permanently injured by hot water. Never leave them unattended in bathtub or shower. Never allow small children to use a hot water tap or draw their own bath.

- If anyone using hot water in the building fits the above description, or if state laws or local codes require certain water temperatures at hot water taps, you must take special precautions:
  - Use lowest possible temperature setting.
- Install some type of tempering device, such as an automatic mixing valve, at hot water tap or water heater. Automatic mixing valve must be selected and installed according to manufacturer's recommendations and instructions.

Water passing out of drain valves may be extremely hot. To avoid injury:

- Make sure all connections are tight.
- Direct water flow away from any person.

**WARNING**Studies have indicated that dangerous bacteria including **legionella**pneumophila can form in potable water distribution system if certain
minimum water temperatures are not maintained. Contact your local health department for
more information.

#### VI. Maintenance

The water heater is intended to provide many years of reliable service. Components, such as thermostats and relief valves, may be subject to failures that require service. Depending on the quality of the water supply, sediment and/or scale may coat the heating coil in the tank and reduce hot water recovery rate. Failure to use the correct procedures or parts can result in unsafe operation.

The owner should arrange to have the following inspections and simple maintenance procedures done at the suggested frequencies.

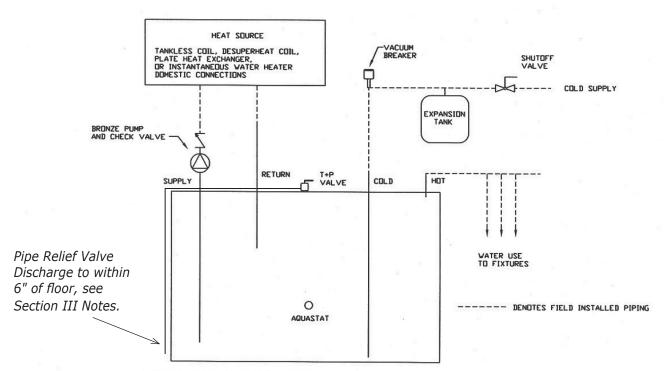
- 1. Boiler and Domestic Water Piping (Annual)

  Check all piping for signs of leakage at the joints, unions and shut-off valves. Repair as required.
- **2.** Temperature and Pressure Relief Valve (Annual)
- 3. Sediment (Annual except where harsh water quality may require more frequent service)

  Depending on water conditions, a varying amount of sediment may collect in the tank. Levels requiring service are indicated by a small temperature difference between the boiler supply and return lines, and a reduced recovery rate. Repeated flushing usually clears such material. As a preventive measure, water should be drawn from the drain valve until it runs clear and the installation of a water filter should be considered.
- 4. Scale (Annual)

  Hard water may cause scale buildup on the outside of the heating coil inside the tank. A water softener will prevent this problem. Symptoms are identical to sediment buildup. If repeated flushing does not resolve the problem, chemical cleaning may be required. Contact a qualified contractor.

#### **Hot Water Booster/Storage Tanks**



HOT WATER BOOSTER / STORAGE TANK
DOMESTIC WATER HEATING SYSTEM / TYPICAL SCHEMATIC
Note: Installation must conform to all local codes.

# ECR International, Inc. LIMITED WARRANTY INDIRECT WATER HEATERS & STORAGE TANKS

By this Limited Warranty ECR International, Inc. ("ECR") issues limited warranties from the date of original installation of the H<sub>2</sub>O Indirect Water Heater or Storage Tank ("Product") to the person that purchased the new Product directly (a) from the ECR brand dealer; or (b) in the case of a newly constructed home, from the contractor who purchased such new Product directly from an ECR brand dealer or wholesaler for installation and use in the newly constructed home (such person in either case referred to hereinafter as the "Original Purchaser"), subject to the terms and conditions set forth below.

#### WARRANTY COVERAGE FOR RESIDENTIAL USAGE

The following limited warranty set forth in this section shall apply to only the original installation of the Product in a single-family dwelling used without interruption by the Original Purchaser as his or her primary residence ("Residential Application"). "Residential Application" shall also mean usage in a multiple family dwelling provided that the Product services only one (1) dwelling in such multiple family dwelling. The term "Residential Application" shall not include any usage of the Product above one hundred fifty (150) degrees Fahrenheit.

#### First Year

ECR warrants its Product used in Residential Applications to be free from defects in material and workmanship under normal usage and service for a period of one (1) year from the date of original installation. In the event that any component of the Product is found to be defective in material or workmanship during this one-year period, then ECR will repair or replace, at its option, the defective component.

#### Second Year through Lifetime

During the remaining lifetime of the Product, ECR will repair or replace, at its option, any component of the Product found to have a defect or malfunction that results in a water leak from the outer jacket, inner tank, or heat exchanger of the Product under normal usage and service.

If ECR is unable to repair or replace the Product component so as to repair the water leak from the outer jacket, inner tank, or heat exchanger of the Product, after a reasonable number of attempts, then ECR will provide at its option, either a replacement Product, or a full refund of the purchase price.

If at the time of the request for service, the Original Purchaser cannot provide a copy of the original sales receipt for the Product, or equivalent document, then the warranty period for the Product shall be ten (10) years from the date of manufacture of the Product.

#### WARRANTY COVERAGE FOR COMMERCIAL USAGE

The following limited warranty set forth in this section shall apply to only the original installation of the Product in a Commercial Application, used without interruption by the Original Purchaser. "Commercial Application" as used herein shall mean, any usage not falling within the above definition of Residential Application. The term "Commercial Application" shall include any usage of the Product above one hundred fifty (150) degrees Fahrenheit.

#### First Year

ECR warrants its Product used in Commercial Applications to be free from defects in material and workmanship under normal usage and service for a period of one (1) year from the date of original installation. In the event that any component of the Product is found to be defective in material or workmanship during this one-year period, then ECR will repair or replace, at its option, the defective component.

#### Second Year through Fifth Year

During the second through fifth year after the date of original installation, ECR will repair or replace, at its option, any component of the Product having a defect or malfunction that results in a water leak from the outer jacket, inner tank, and heat exchanger of the Product under normal usage and service.

If ECR is unable to repair or replace the Product component so as to repair the water leak from the outer jacket, inner tank, or heat exchanger of the Product, after a reasonable number of attempts, then ECR will provide at its option, either a replacement Product, or a full refund of the purchase price.

#### LIMITATIONS AND EXCLUSIONS

- 1. Under no circumstances will ECR be responsible for any other costs associated with rectifying the defective part or Product, including, without limitation, costs associated with removing and reinstalling the defective part or Product and/or its replacement part or Product, and all labor and material costs connected therewith, including, without limitation, costs associated with returning the defective part or Product to ECR.
- 2. This Limited Warranty will not be applicable if the Product is (a) used or operated at a pressure over or under its rated capacity; (b) installed for uses other than home heating; (c) not maintained in accordance with ECR's recommendation or accepted good practice as determined by industry standards; or (d) subjected to unauthorized alteration.
- 3. This Limited Warranty will not be applicable if the Product has been damaged as a result of being improperly installed, serviced or operated, including, without limitation, operated with insufficient water, allowed to freeze or subjected to flood conditions.
- 4. In order for this Limited Warranty to be effective (a) the Product must have been assembled in strict compliance with installation instructions furnished with the Product; and (b) the Product sections must not have been damaged during shipment and installation.
- 5. ECR shall not be liable for any damages, defaults or delays in performance under this Limited Warranty caused by (a) any contingency beyond its control, including, without limitation, a shortage or reduced supply of energy or raw materials, freezing, flood, fire, wind or lightening; (b) the failure of external wiring, piping, or other attachments and accessory products not integral with the Product; (c) installation, service or

operation that is not in compliance with all applicable federal, state and provincial laws or regulations; (d) misapplication or the use of the Product for purposes other than for which it was designed; (e) the use of parts not supplied or designated by ECR; (f) failure to maintain the Product free of water sediments or scale deposits; (g) components of a Product which are not defective, but must be replaced during the warranty period as a result of reasonable wear and tear; (h) failure of a component, control or component part other than a component part manufactured solely by ECR; or (i) potable water with a Ph exceeding 8.0 or below 6.0, and/or chloride concentrations exceeding 80 parts per million (ppm).

- 6. This Limited Warranty in no way can be considered as a guarantee of workmanship of an installer or repairman connected with the installation or repair of the Product or as imposing on ECR liability of any nature for unsatisfactory performance as a result of faulty workmanship in the installation or service of the Product, which liability is hereby expressly disclaimed.
- 7. The furnishing of replacement parts under the terms of this Limited Warranty will apply to the original warranty period and will not serve to extend such period.
- 8. This Limited Warranty only applies to Products installed in the United States or Canada.
- 9. The remedy for breach of this Limited Warranty is expressly limited to the repair or replacement of any part found to be defective under conditions of normal use, unless otherwise specifically set forth herein, and the remedy for breach of this Limited Warranty, statutory duty or by reason of tort (including, without limitation, negligence) does not extend to liability for incidental, special or consequential damages or losses, such as loss for the use of the material, inconvenience or loss of time. The maximum liability of ECR in connection with the sale of the Product shall not in any case exceed the price of the part claimed to be defective, or the price of the Product is claimed to be defective. This Limited Warranty is the complete and exclusive statement of warranty terms in regards to the Product.
- 10. FOR ALL SALES NOT SUBJECT TO THE MAGNUSON-MOSS WARRANTY ACT 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 PARTICULAR PURPOSE. FOR ALL OTHER SALES, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR ANY PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE PERIOD OF THIS LIMITED WARRANTY.

PLEASE NOTE: Some states, provinces and territories do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations and exclusions may not apply to you.

#### **MISCELLANEOUS**

- 1. The Magnuson-Moss Warranty Act applies to "consumer" sales as contrasted with "commercial" sales. A consumer sale is one to a buyer for personal, family or household purposes and not for the purpose of resale.
- 2. If any provision of this Limited Warranty shall be determined to be illegal, unconscionable or unenforceable, all other terms and provisions hereof shall nevertheless remain effective and shall be enforced to the fullest extent permitted by law. The warranties made under this Limited Warranty are exclusive and may not be altered, enlarged or changed by a distributor, dealer, or other person whatsoever, other than pursuant to a written agreement executed by a duly authorized officer of ECR.
- 3. This Limited Warranty is nontransferable and shall be for the benefit of the Original Purchaser of the Product only.
- 4. This Limited Warranty gives the Original Purchaser only specific legal rights and you may have other legal rights which vary from state-to-state.

#### PROCEDURE FOR OBTAINING WARRANTY SERVICE

- 1. At the time a claim is filed under this Limited Warranty the Original Purchaser must present a copy of the original sales receipt, and a deed, utility bill, or equivalent document evidencing both ownership of the Product and installation in the dwelling or commercial property owned by the Original Purchaser. With regard to claims made by an Original Purchaser used in a Commercial Application, in no event shall notification of a service request be received later than five (5) years from the date of original installation.
- 2. For prompt warranty service, notify the installer who, in turn, will notify the ECR distributor from whom such distributor purchased the Product. If this action does not result in warranty service, the Original Purchaser or installer should contact ECR Customer Service (see contact information below), giving full particulars in support of the claim. Alleged defective part or parts must be returned through trade channels in accordance with ECR's procedure currently in force for handling returned goods for the purpose of inspection or determining the cause of failure. ECR will furnish the new part(s) to an authorized ECR distributor who, in turn, will furnish the part(s) to the heating contractor who installed the Product.

#### ECR International, Inc.

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<u>stional.com</u> PN 240009217 Rev. A 10/11

#### **REPLACEMENT PARTS**

| Part             | Part No. | Description                                      |
|------------------|----------|--|
| T+P Relief Valve | TP-3     | 150 psi / 210deg. F, 4" probe,<br>ANSI/AGA Cert. |
| Thermostat       | L4080    | Honeywell L4080B                                 |
| Thermostat Well  | R-Well   | 3" Immersion Well, ¾", ½" NPT                    |

# H<sub>2</sub>O



## **ECR International, Inc** 2201 Dwyer Avenue, Utica NY 13504-4729

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