



## Hot Water Storage/ Booster Tanks

For Single Tank Installations

### INSTALLATION, OPERATION & MAINTENANCE MANUAL

30, 40, 60, 80, 115 Gallon

L = Low Boy Profile

C = Commercial Pipe Connections



*Conforms to UL STD 174 and NSF/ANSI 372  
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, Inc. reserves the right to discontinue, change specifications or system design at any time without notice and without incurring any obligation, whatsoever.



## MODELS

<b>H<sub>2</sub>OST30</b>	<b>H<sub>2</sub>OST80</b>
<b>H<sub>2</sub>OST40</b>	<b>H<sub>2</sub>OST80C</b>
<b>H<sub>2</sub>OST60</b>	<b>H<sub>2</sub>OST115</b>
<b>H<sub>2</sub>OST60L</b>	<b>H<sub>2</sub>OST115C</b>

### Table of Contents

I. General Information.....	3
II. Important Safety Instructions.....	4
III. Pre-Installation Considerations.....	5
IV. Electrical.....	8
V. Operation.....	8
VI. Maintenance.....	9

## SAVE THESE INSTRUCTIONS

### Hazard Definitions

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

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

**▲ WARNING** Indicates a presence of hazards that CAN cause severe personal injury, death or substantial property damage.

**▲ CAUTION** Indicates a 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.

## I. General Information

### IMPORTANT INFORMATION – READ CAREFULLY

NOTE: The 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 storage tanks 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 storage tank contains very hot water under high pressure. Do not unscrew any pipe fittings or attempt to disconnect any components of this storage tank 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 storage tank to prevent scalding injuries. Do not rely on the pressure and temperature gauges to determine the temperature and pressure of the storage tank. This storage tank 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 storage tank.

#### **CAUTION**

To reduce the risk of excessive pressures and temperatures in this storage tank, 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 storage tank. Install the valve into an opening provide and marked for this purpose in the storage tank, 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.

Improper water quality will reduce the life of the storage tank. Hard water, sediment, high or low PH and high levels of chlorides in the domestic water should be avoided. Be sure that PH levels fall between 6 and 8 and dissolved chlorides are less than 100 ppm. A filter must be used where sediment is greater than 5 microns in size in the water supplied to the unit. A water softening system is recommended for areas with hard water. In cases where water quality is unknown, a qualified water treatment expert should be consulted.

NOTICE: Damage to tanks caused by improper water quality is not covered under the warranty.

**▲ DANGER**

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.

**▲ DANGER**

This storage tank is supplied with an adjustable thermostat to control the water temperature. Hot water temperatures required for automatic dishwashers and laundry use can cause scald burns resulting in serious personal injury and/or death. The temperature at which injury occurs varies with the person's age and the time of exposure. The slower response time of disabled persons increases the hazard to them. NEVER allow small children to use a hot water tap or to draw their own bath water. NEVER leave a child or disabled person unattended in a bathtub or a shower. NEVER allow small children to use a hot water tap or to draw their own bath water. NEVER leave a child or disabled person unattended in a bathtub or a shower.

**▲ WARNING**

Hydrogen gas can be produced in a hot water system served by this storage tank that has not been used for a long period of time (generally two weeks or more). Hydrogen gas is extremely flammable. To reduce the risk of injury under these conditions, it is recommended that the hot water faucet be opened for several minutes at the kitchen sink before using any electrical appliance connected to the hot water system. If hydrogen is present, there will probably be an unusual sound such as air escaping through the pipe as the water begins to flow. There should be no smoking or open flame near the faucet at the time it is open.

## **II. IMPORTANT SAFETY INSTRUCTIONS**

**▲ WARNING**

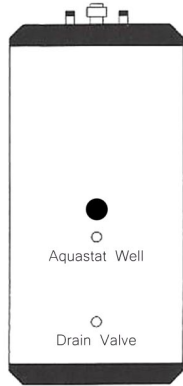
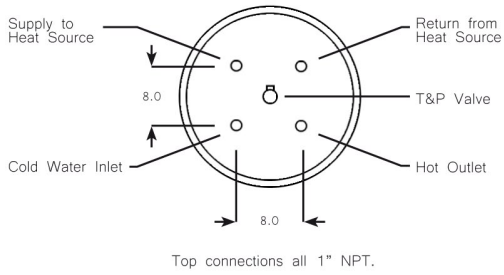
When using electrical appliances, basic safety precautions to reduce the risk of fire, electric shock, or injury to persons should be followed, including:

**READ ALL INSTRUCTIONS BEFORE USING THIS STORAGE TANK.**

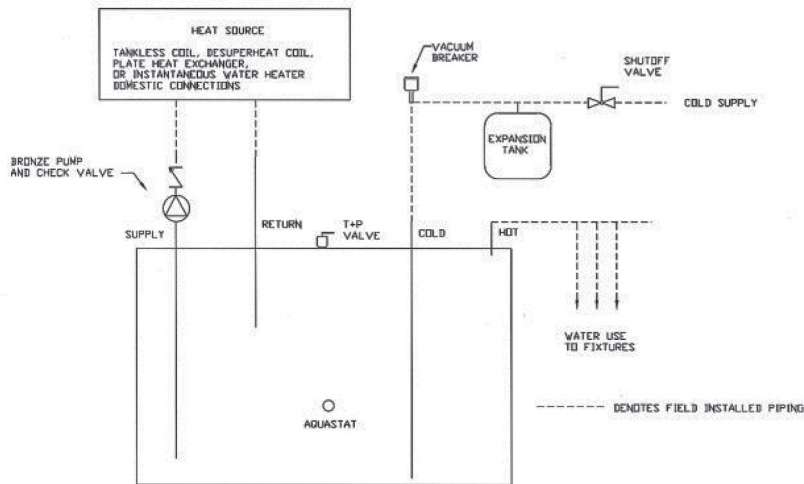
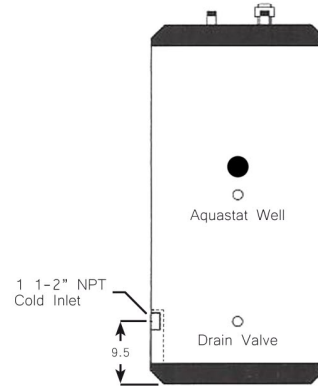
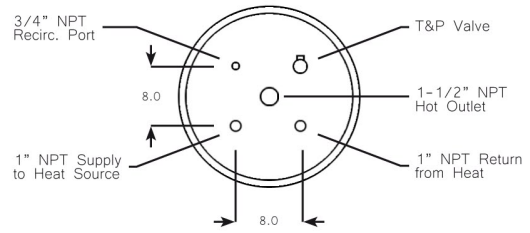
1. Install or locate this storage tank only in accordance with the provided installation instructions
2. Use this storage tank only for its intended use as described in this manual.
3. As with any appliance, close supervision is necessary when used by children.
4. Do not operate this storage tank, if it is not working properly, or if it has been damaged or dropped.
5. This storage tank should be serviced only by qualified personnel. Contact nearest authorized service facility for examination, repair, or adjustment.

## HOT WATER BOOSTER / STORAGE TANKS

STANDARD MODEL H2OST



MODEL H2OST-C



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

Model	Storage Volume	Dimensions (Inches)		Piping Connections		Max. Working Pressure	Approx. shipping Wt.
	Gals.	Ht.	Dia.	Cold/Hot In/Out	Heat Source Supply/Return	(psi)	Lbs.
H2OST30	30	34.0	23.5	1	1	150	75
H2OST40	40	44.0	23.5	1	1	150	90
H2OST60	60	62.0	23.5	1	1	150	115
H2OST60L	60	46.0	28.0	1	1	150	110
H2OST80	80	56.0	28.0	1	1	150	140
H2OST80C	80	56.0	28.0	1 ½	1	150	140
H2OST115	115	74.0	28.0	1	1	150	175
H2OST115C	115	74.0	28.0	1½	1	150	175

Fully insulated 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.

### III. 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 storage tank 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.

Choose the storage tank model based on the expected water usage for the given site. The average residence with one shower or more will require a Model H2OST40 or larger

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 storage tank.

<p style="text-align: center;"><b>NOTICE</b></p> <p style="text-align: center;"><b>PROPERTY DAMAGE HAZARD!</b></p> <p style="text-align: center;">All storage tanks will eventually leak. Do not install without adequate drainage!</p>
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The storage tank should be located in an area where water leakage from the tank or connections will not result in damage to areas adjacent to the storage tank or to lower floors of the structure. When such a location can not be avoided, a suitable drain pan must be installed under the storage tank, and the drain pan must be connected to a drain.

The drain pan should be at least 2" deep with a length and width at least 2" greater than the total diameter of the unit and should be piped to an adequate drain.

Drain pans suitable for these storage tanks are available from your wholesale distributor.

Storage tank life depends upon the quality, water pressure, and the environment in which the storage tank is installed. Storage tanks are sometimes installed in locations where leakage may result in property damage, even with the use of a drain pan piped to a drain; however, unanticipated damage can be reduced or prevented by a leak detector or water shut-off device used in conjunction with a piped drain pan. These devices are available from some plumbing supply wholesalers and retailers and detect and react to leaks in various ways:

- Sensors mounted in the drain pan that trigger an alarm or turn off the incoming water to the storage tank when leakage is detected.
- Sensors mounted in the drain pan that turn off the water supply to the entire home when water is detected in the drain pan.
- Water supply shut-off devices that activate based on the water pressure differential between the cold water and hot water pipes connected to the storage tank.

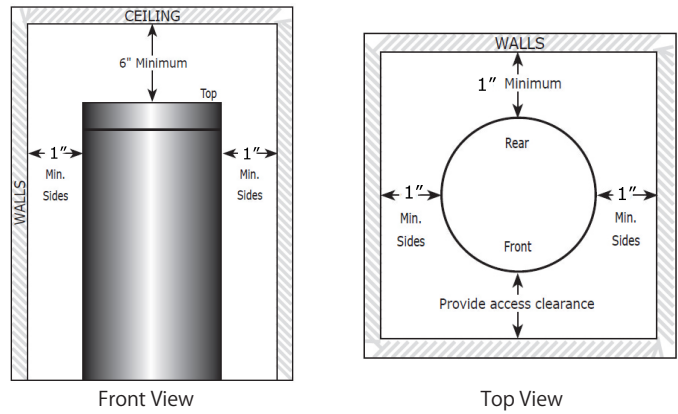
The storage tank should be installed as close to the boiler as is practical for easy access for service. The unit is designed for installation on combustible flooring and in alcoves, closets, etc.

**Minimum Clearance from Combustible Surfaces:**

- Bottom ----- 0"
- Left, Right, Rear Sides ----- 1"
- Front ----- 1"
- Top ----- 6"

**Minimum Clearance for Service:**

- Bottom ----- 0"
- Left, Right, Rear Sides ----- 3"
- Front ----- 30"
- Top ----- 6"



"The storage tank 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."

**3. Additional recommended components**

- A. Shut-off valves. Allows the isolation of the storage tank from the boiler system during service.
- B. Unions. Allows for easy locating or removal.
- C. Vacuum breaker. Protects the storage tank from collapse if a hot tank is valved off to service other components in the system.
- D. Thermal expansion tank. If the storage tank 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.

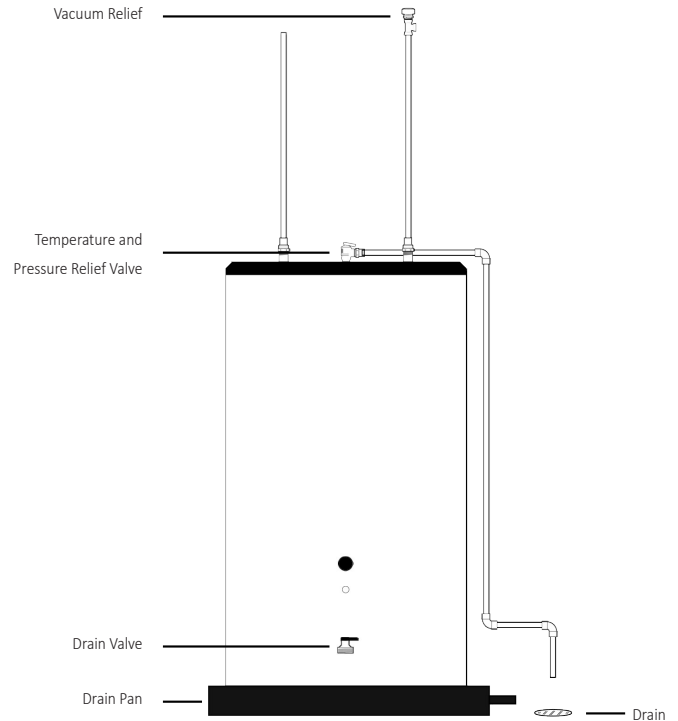
**4. Water Quality**

Improper water quality will reduce the expected life of the storage tank. Hard water, sediment, high or low Ph, and high levels of chlorides in the domestic water should be avoided. High or low Ph and/or high chloride concentrations will cause corrosion and eventually fail. 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 storage tanks in areas where the Ph is above 8.0 or below 6.0, and/or with chloride concentrations greater than 80 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 storage tank in the final location.
- C. Connect the cold water supply piping.  
Install piping on to 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 on to hot water supply connection using a union, a heat trap, a vacuum breaker, and a shut-off valve.

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.

E. Fill the storage tank 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.

#### **IV. Electrical**

1. Install electric wiring and grounding in accordance with the National Electrical code and local regulations.
2. All storage tanks are supplied with a thermostat.

#### **V. Operation**

##### **Startup**

After the storage tank has been plumbed and wired, and the sytem is purged of air, the storage tank is ready to be started.

1. 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.
2. On a call for heat, the tank thermostat contacts close to start the storage tank zone circulator and the heat source.
3. After the tank has reached the temperature setting, the tank thermostat opens and de-energizes the circulator and the heat source.

##### **Temperature Adjustment**

The tank aquastat controls the maximum water temperature in the storage tank. 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 aquastat 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 aquastat has satisfied, and the circulator and the boiler have turned off. Adjust as needed.

Lowering the aquastat setting will not have an immediate effect on the water temperature because the stored water will have to be used and the aquastat 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 storage tank

#### **VI. Maintenance**

The storage tank is intended to provide many years of reliable service. Components, such as thermostats and relief valves, may be subject to failures that require service. 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. 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)

- The temperature and pressure relief valve should be checked to ensure that it is in operating condition. To check the relief valve, lift the lever at the end of the valve several times. The valve should seat properly and operate freely. If water does not flow, remove and inspect for obstructions or corrosion. Replace with a new valve of the recommended capacity as necessary. Do not attempt to repair the valve, as this could result in improper operation and a tank explosion. In areas with poor water conditions, it may be necessary to inspect the temperature and pressure relief valve more often than once a year.

### **NOTICE**

*Before manually operating the valve, make sure that a drain line has been attached to the valve to direct the discharge to an open drain. Failure to take this precaution could mean contact with extremely hot water discharging from the valve during this checking operation.*

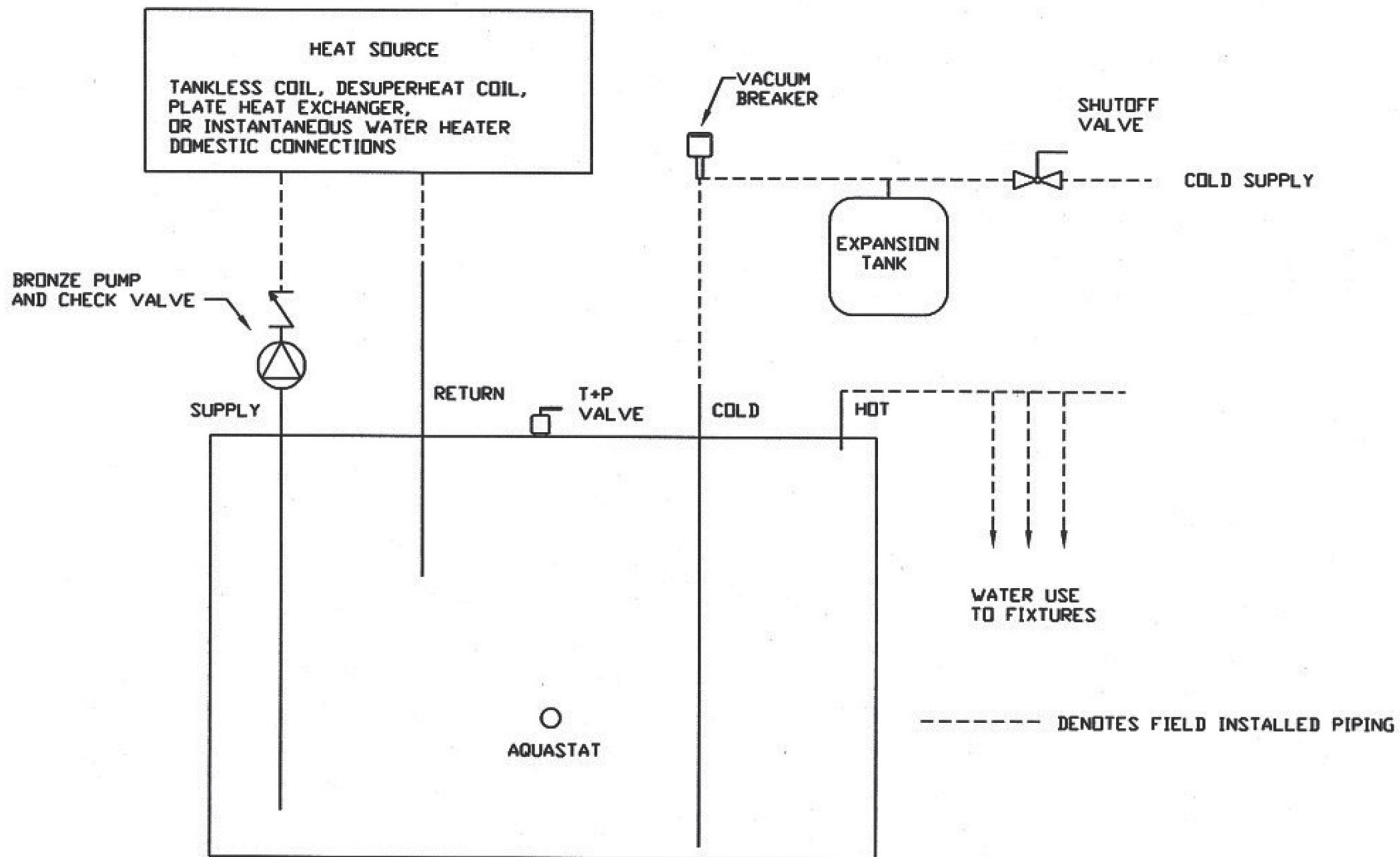
*If the temperature and pressure relief valve on the heater discharges periodically or continuously, it may be due to thermal expansion of water in a closed water supply system, or it may be due to a faulty relief valve. Thermal expansion is the normal response of water when it is heated. In a closed system, thermal expansion will cause the system pressure to build until the relief valve actuation pressure is equaled. Then the relief valve will open, allowing some water to escape, slightly lowering the pressure. Contact your water supplier or local plumbing inspector on how to control this situation.*

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. 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. Inspect Anode (annual)
  - The purpose of the magnesium anode is to reduce the damaging effects of aggressive water on the water heater. Aggressive water will cause the anode(s) to erode. The anode(s) must be inspected at least annually to determine whether a new anode should be installed. Use anode replacement parts supplied by ECR only. ECR anodes are 1-1/4 NPT and are made with magnesium, brass, and stainless steel. There is no steel in a ECR anode. Severe or rapid deterioration of the anode indicates very aggressive water. If this occurs, have the water tested to verify whether it is within the limits outlined on page 3. Failure to inspect the anode regularly and replace if necessary could result in damage to the water heater. If this unit is installed and maintained according to the instructions and conditions in this manual, this product will last for a long time.
  1. Close domestic water isolation valves.
  2. Drain the water heater completely and allow it to cool off.
  3. Remove the anode cover on the front of the unit. See figures on pages 5. The temperature control can be turned to the side to allow easier access.
  4. After the water heater has drained and cooled, remove the anode using a 1 3/4" 6-point socket and a breaker bar.
  5. Inspect the anode and replace if needed. The anode should be replaced when more than 6" of core wire is exposed. The anode should be replaced with a ECR supplied anode only. See above. The brass hex on the anode is 1 1/4 NPT and installs into a 1 1/4 stainless half coupling on the shell of the tank. This part will need to be properly Teflon taped and coated with a quality Teflon based pipe sealant.
  6. Replace the inspection cover.
  7. Refill the water heater, and restore to operation.
  8. Verify operation of the water heater.

## Replacement Parts

	Description	Part Number
1	Aquastat Well, Stainless Steel	240009522
2	Aquastat	240009521
3	Drain Valve, 3/4" Brass	240012194
4	Anode Rod	240010929

## 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 lightning; (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 if the entire 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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Customer Service Fax: 315/724-9319  
E-Mail: [info@ecrinternational.com](mailto:info@ecrinternational.com)

PN 240009217 Rev. A 10/11







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All specifications subject to change without notice.  
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