Seaward Products

WATER HEATERS



OWNER'S MANUAL

FOR ELECTRIC
HEAT EXCHANGER
WATER HEATERS

MODELS: S600, F600, S700, F700 \$1100, F1100, S1200, F1200 Serial Number

LIMITED TWO YEAR WARRANTY

SEAWARD PRODUCTS warrants the products delivered will be: A, free from (1) encumbrances and (2) defects in material and workmanship under the normal use and service, and B, will meet applicable specifications and descriptions at time of delivery to BUYER.

The obligation of SEAWARD under this Warranty is limited to the repair, rework, or replacement, at SEAWARD'S option, any part or component thereof, which examination discloses to our satisfaction to have been nonconforming or defective. SEAWARD, after establishing customer's purchase date and determining problem to be under warranty, will either repair the product at their factor, or authorized service center and allow labor and parts for (2) two years from purchase date. Transportation charges are the responsibility of the customer. (Sonditions not covered under warranty are: (1) Corrosion due to electrolysis (2) Cracking of the tank due to freezing water (3) Routine Maintenance that may be require:

The foregoing Warranty and condition shall apply to any repaire:, reworked, or replaced products, part or component supplied by SEAWARD and shall in no event be liable to BUYER or BUYER'S customers for any incidental or consequential damages, or loss of use, or other losses, however occasioned.

Implied Warranties of merchantability and of the fitness of the product for any purpose are warranted for a period of two years on parts and labor, <u>SEAWARD</u> makes no warranties, expressed or implied after that time.

Some states do not allow limitation on how long an implied warranty lasts or for the exclusion or limitations of incidental or consequential damages therefore, the above limitations may not apply to you.

This Warranty is extended to the original purchaser only, unless purchased for purposes of resale. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Seaward Products

REPAIR PARTS

Repair parts listed herein may be ordered through Seaward Products, Seaward Distributors and Dealers, or Dealer's Authorized Service Centers. All parts will be shipped at prevailing prices.

When ordering repair parts, please give the following information: 1. The Part Number, 2. The Part Description, 3. The Model Number of the Water Heater, 4. The Serial Number of the Water Heater. The Model Number and the Serial Number of the Water Heater will be found on the rating plate located on the front panel. For the Authorized Service Center nearest you, please contact Seaward Products.

CUSTOMER SERVICE

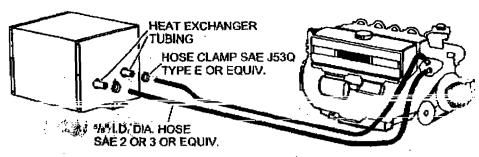
Seaward Products

3721 CAPITOL AVENUE WHITTIER, CA 90601-1732

PHONE: (562) 699-7997 • FAX: (562) 699-0908

INTERNET: www.seawardproducts.com





INSTALLATION

NOTE: DO NOT INSTALL THE WATER HEATER ON IT'S SIDE OR UP SIDE DOWN.

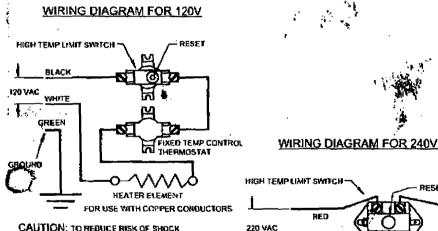
- $\mathbf{1}_{\alpha}$ -Locate water heater at engine level as close to engine as possible.
- Secure mounting brackets to structure with eight #12 minimum screws or 1/4-20 minimum cap screws and nuts.
- Connect cold water supply and hot water outlet to heater as marked, -- 1/2", N.P.T. fittings
- Connect heat exchanger system described in figure above. Make sure coolant system is completely purged of air and full of coolant before operating.
- Pressure temperature relief valve is factory installed. The pressure relief shall limit the pressure to 127.5 PSI (879.3 KPA) minimum, 150 PSI (1034.2 KPA) maximum.
 - The valve must be oriented, provided with tubing, or otherwise installed so that discharge can exit no more than 6 inches above? at any distance below the structural floor, and cannot contact any live electrical part.

Install replacement temperature and pressure protective equipment required by local codes, but not less than a combination temperature and pressure relief valve certified as meeting the requirements for relief valves and automatic gas shutoff devices for hot water supply systems. ANSI Z21,22 by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment of materials.

Connect the electrical supply by a qualified electrician. The electrical supply shall be permanent wiring, armored cable or conduit, per national electrical code NFPA 70, with a minimum capacity of 1500 watts.

On 120 volt circuits, use a UL approved 15 amp circuit breaker. On 240 volt circuits, use a 15 amp approved circuit breaker per leg.

- GROUNDING INSTRUCTIONS: The supply ground shall be connected to the green wire located in the water heater wiring compartment. Do not place switch in the grounding circuit.
- 8. RESET INSTRUCTIONS: The heater is equipped with a high limit switch which can be manually reset. If the limit switch activates. proceed as follows:
 - करिया Turn power off at main power panel or remote switch
 - Remove wiring access cover
 - Depress red button on high temperature limit switch
 - Replace cover and turn power on
 - If temperature limit switch reactivates, contact a Seaward Products authorized service center.



CAUTION: TO REDUCE RISK OF SHOCK OR FIRE, USE ONLY ON A UTILITY SYSTEM. HAVING A MAXIMUM 120/250 VOLT, THREE WIRE SYSTEM.

120 VOLT AC

FOR USE WITH COPPER CONDUCTORS 240 VOLT AC

BLACK

GREEN

COULINIE

WARE

220 VAC

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

- 1. READ ALL INSTRUCTIONS BEFORE USING THIS WATER HEATER.
- 2. This water heater must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on Page 4. Item 7.
- 3. Install or locate this water heater only in accordance with the provided installation instructions.
- 4. Use this water heater only for its intended use as described in this manual.
- 5. Do no use an extension cord set with this water heater. Hero receptacle is available adjacent to the water heater, contact a qualified electrician to have one properly installed.
- 6. As with any appliance, close supervision is necessary when used by children.
- 7. Do not operate this water heater if it has a damaged cord or plug. if it is not working properly, or if it has been damaged or dropped.
- 8. This water heater should be serviced only by qualified service personnel. Contact nearest authorized service facility for examination, repair, or adjustment.

WARNING:

This Water Heater is equipped with a heat exchanger. Extended engine coolant circulation through the heater may result in excessively hot water.

This water heater tank and heat exchanger is made of aluminum. Some engine manufacturers recommend that the cooling system be flushed periodically. Caustic chemicals are commonly used. Do not flush caustic chemicals (such as Nalcool) through your system with the heat exchanger hooked up or damage Will occur to heater.

If flushing is required by your engine manufacturer, you must. isolate neater from this process. After system flushing is complete and neutralized, you can then re-plumb hoater. Make: recommended automotive type premixed ethylene glycol coolains such as Prestone, Xerex, or Peak are used for replacement. Damage that occurs to Heater due to chemical reaction by caustic chemicals is not under warranty.

CAUTION:

Hydrogen gas can be produced in a hot water system served h these heaters that have not been used for a long period of tir a (generally 2 weeks or more.) Hydrogen gas is extremely flammable. reduce the risk of injury under these conditions, it is recommended the the hot water faucet be opened for several minutes at the kitchen si before using any electrical appliance connected to the hot war ... system. If hydrogen is present, there will probably be an unusual sou A such as air escaping through the pipe as the water begins to flo There should be no smoking or open flame near the faucet at the tir it is open.

Small amounts of electric currents may move to your boat through your shore cord, causing galvanic damage to your water heater. help prevent possible damage, a galvanic isolator is recommende 🖁 Galvanic corrosion is not covered under warranty.

NOTICE:

This temperature/pressure valve may weep during initial operatio This is normal. The valve will seat itself with use. A drain hose shou be installed at this valve directed into bilge.

If the boat is connected to the dockside water system, make sure turn off the system at the dock when not attended. Also make sure pressure regulator is used to control pressure.

OPERATING INSTRUCTIONS

- 1. Fill water system and completely fill tank.

- 3. Turn switch to "OFF" position prior to draining water system.

 4. The temperature/pressure valve may weep during initi operation. This is normal. The valve will seat itself with the NOTE: Do not operate heaterwith. NOTE: Do not operate heater without element being submerged in wate

MAINTENANCE

- 1. Check heat exchanger lines for leaks at regular intervals. A leak the system will cause coolant loss and may damage engine.
- 2. Flush tank periodically to help prevent buildups of deposits.
- 3. Protect against damage from freezing temperatures, (32°F. or less) Please review the following:
 - Drain tank by fully opening drain valve. Open T & P valve to help relieve vacuum in tank. (See item 2 in exploded view.)
 - b.) It is recommended you winterize your fresh water system. First complete step 3a, then follow instructions of your local supplier regarding chemicals to use and how to use them.

CAUTION:

If heater has been run without water and now fails to work, pus No electric reset button high limit switch under wire access cover befor calling for service. 2