TO THE INSTALLER:
Please attach these instructions next to the water heater.

TO THE CONSUMER:
Read these and all component instructions. Please keep for future reference.

Waranty, registration card & parts list included.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause serious injury or property damage. Refer to this manual. For assistance or additional information, consult a qualified installer or service agency.

WARNING: If the information in these instructions is not followed exactly, fire or explosion may result and can cause property damage, personal injury or death.

DO NOT INSTALL THE WATER HEATER ON COMBUSTIBLE FLOORING. Install in accordance with all local codes. In the absence of local codes, refer to NFPA 31, CSA B139, or contact Bock Water Heaters with questions concerning proper flooring materials.

INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

OIL-FIRED WATER HEATERS
72E • 361E • 541E

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause serious injury or property damage. Refer to this manual. For assistance or additional information, consult a qualified installer or service agency.

WARNING: Hotter water increases the risk of scald injury. Before changing the temperature setting, read the instruction manual. Temperatures at which injury occurs vary with the individual's age and length of exposure. The slower reaction times of children, elderly and physically or mentally impaired persons increases the scalding hazard to them. It is recommended lower water temperatures be used where these situations exist.

To lower water temperature use point-of-use temperature limiting devices.

WARNING: Flammable vapors may be drawn to this water heater from other areas of the structure by air currents. Do not store or use any flammable liquids in the vicinity of this heater.

WARNING: Never burn garbage or paper in the water heater and never leave paper or rags around it.

WARNING: Water heater blankets may restrict air flow to the heater and cause fire, asphyxiation, personal injury or death.

Note: Heat loss should be considered when determining correct size of water heater.

WARNING: Hydrogen gas can be produced in a hot water system that has not been used for an extended period—generally, two weeks or longer. To prevent possible injury under this situation, we recommend that a hot water faucet be wide open for several minutes before you use ANY electrical appliance that is connected to the hot water system. If hydrogen is present, an unusual sound—such as air escaping—will come from the open faucet as the hot water begins to flow. Hydrogen gas is extremely flammable—there must be no open flame near this open faucet.

Minimum clearance to combustible construction is: SIDES 6"; BACK 6"; FRONT 24". The installation of this water heater must conform with local codes and ordinances. In the absence of local codes, the installation must comply with the National Fire Protection Association (NFPA 31) Code or CSA B139.

WARNING: The recommended temperature for normal residential use is 120°F. The dial on the aquastat does not always reflect the outgoing water temperature, which could occasionally exceed 120°F. The variation in outgoing temperature could be based on factors including but not limited to usage patterns and type of installation. Test your water at the tap nearest to the water heater.

WARNING: Hydrogen gas is extremely flammable—there must be no open flame near this open faucet.

Installer Contact Information

<table>
<thead>
<tr>
<th>Installed By</th>
<th>Purchased From</th>
<th>Address</th>
<th>Phone#</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

Bock Water Heaters, Inc.
110 S. Dickinson St. • P.O. Box 8632
Madison, WI 53708-8632
Phone: 608/257-2225
Fax: 608/257-5304
www.bockwaterheaters.com
PERFORMANCE SPECIFICATIONS AND ROUGHING-IN DIMENSIONS

CAUTION:
The recommended water temperature setting for normal residential use is 120°F.

Leave ample room for servicing when the water heater is installed – do not block access to the burner, inspection door, handholes or controls. Leave room to pipe the unit and connect the fuel and electricity.

<table>
<thead>
<tr>
<th>BURNER SPECIFICATIONS</th>
<th>MODEL/OEM #</th>
<th>NOZZLE</th>
<th>PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>72E</td>
<td>CARLIN EZ-2HP/9833222J72E</td>
<td>1.25X70°B</td>
<td>150 PSI</td>
</tr>
<tr>
<td></td>
<td>WAYNE MSR/371-019B</td>
<td>1.50X80°B</td>
<td>100 PSI</td>
</tr>
<tr>
<td></td>
<td>RIELLO R35.5/C8512221</td>
<td>1.25X60°B</td>
<td>150 PSI</td>
</tr>
<tr>
<td></td>
<td>RIELLO 40F10/</td>
<td>1.25X60°B</td>
<td>100 PSI</td>
</tr>
<tr>
<td></td>
<td>BECKETT AF / BK8-160 or BK8-180</td>
<td>1.50X80°B</td>
<td>100 PSI</td>
</tr>
<tr>
<td>361E</td>
<td>CARLIN 201CRD/98285000B361E</td>
<td>2.50X70°B</td>
<td>150 PSI</td>
</tr>
<tr>
<td></td>
<td>WAYNE EH/371-026</td>
<td>3.00X80°A</td>
<td>100 PSI</td>
</tr>
<tr>
<td>541E</td>
<td>CARLIN 201CRD/98285000B541E</td>
<td>4.00X70°B</td>
<td>130 PSI</td>
</tr>
<tr>
<td></td>
<td>WAYNE EH/371-028</td>
<td>4.50X80°B</td>
<td>100 PSI</td>
</tr>
</tbody>
</table>

SIZES AND CAPACITIES

(Shipping weights are complete assembly, including burners and controls)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>STORAGE CAPACITY</th>
<th>BTUH INPUT</th>
<th>FIRING RATE</th>
<th>STANDARD VOLTAGE</th>
<th>MOTOR</th>
<th>SHIPWEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>72E</td>
<td>67 GAL.</td>
<td>199,000</td>
<td>1.50 GPH</td>
<td>120V 60HZ</td>
<td>1/7 HP</td>
<td>550 LBS.</td>
</tr>
<tr>
<td>361E</td>
<td>91 GAL.</td>
<td>415,000</td>
<td>3.00 GPH</td>
<td>120V 60HZ</td>
<td>1/4 HP</td>
<td>1105 LBS.</td>
</tr>
<tr>
<td>541E</td>
<td>83 GAL.</td>
<td>623,000</td>
<td>4.50 GPH</td>
<td>120V 60HZ</td>
<td>1/4 HP</td>
<td>1330 LBS.</td>
</tr>
</tbody>
</table>

MODEL | A | B | C | D | E | OUTLET | INLET | DRAIN |
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>72E</td>
<td>58&quot;</td>
<td>28&quot;</td>
<td>20&quot;</td>
<td>16&quot;</td>
<td>8&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>361E</td>
<td>67&quot;</td>
<td>31 1/2&quot;</td>
<td>26&quot;</td>
<td>23&quot;</td>
<td>9&quot;</td>
<td>2&quot;</td>
<td>1&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>541E</td>
<td>66&quot;</td>
<td>34&quot;</td>
<td>30 1/2&quot;</td>
<td>NA</td>
<td>10&quot;</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>

* Nipple not furnished  ** Under drain valve on 72E only
Care must be taken to insure an adequate air supply for the water heater.

A. Install equipment only where the water heater will have satisfactory combustion, proper venting, and the maintenance of temperature at safe limits all around the unit under normal operating conditions. Free circulation of air around the water heater is essential. If the air supply is inadequate, introduce outside air. Any temperature above 90°F around the heater indicates a need for additional air (see NFPA 31 for air requirements).

B. In addition to air needed for combustion, air may be required for draft control; cooling off; controlling dew point; heating; drying; oxidation or dilution; safety exhaust; odor control; and compressors.

C. Make sure air around the water heater is adequate for personnel comfort and working conditions.

D. Check for proper draft. Place a draft gauge in the chimney above the draft diverter. Drafts should be at least -0.02” W.C. and less than -0.05” W.C. while the water heater is in operation.

Unconfined space: No additional combustion and ventilation air is required if the volume of the space is greater than 50 cubic feet per 1,000 BTUH of the combined total input of all equipment installed in that space. Rooms leading directly to the space through openings which cannot be closed are considered part of the unconfined space.

Confined space: When the unit will be installed in a space with a volume of less than 50 cubic feet per 1,000 BTUH, the space must be vented at the floor for combustion air and at the ceiling for ventilation. This air can be supplied from either inside or outside of the building as conditions allow (refer to NFPA 31 or local codes).

A. Inside air supply: Provide two permanent openings; one within 12” of the top of the enclosure and one within 12” of the bottom, leading directly to room(s) of sufficient volume so that the combined volume of all the space meets the criteria for unconfined space. Each opening requires a minimum free area of one (1) square inch (two square inches total) per 1,000 BTUH of the combined total input of all equipment installed in the enclosure, but not less than 100 square inches.

B. Outside air supply: Provide two permanent openings; one within 12” of the top of the enclosure and one within 12” of the bottom. These openings must lead directly to crawl and attic spaces leading directly to the outside of the building.

1. Leading directly to outside or through vertical ducts: Each opening (top and bottom) requires a minimum free area of one (1) square inch (two square inches total) per 4,000 BTUH of the combined total input of all equipment installed in the enclosure.

2. Leading to the outside through horizontal ducts: Each opening (top and bottom) requires a minimum free area of one (1) square inch (two square inches total) per 2,000 BTUH of the combined total input of all equipment installed in the enclosure.

Louvres and grilles: In calculating the “free” area in Equipment Located in Confined Spaces, consider the blocking effects of louvers, grilles, or screens protecting openings. The screens cannot be smaller than one (1) inch of mesh. If the “free” area of a louver or grille is known, it should be used in calculating the size opening required to provide the “free” area specified. If the design and “free” area is not known, assume wood louvers have 20% to 25% “free” area, and metal louvers and grilles 60% to 75%. Fix louvers and grilles in the open position or interlock with the equipment so they are opening automatically during equipment operation.

Models 72E and 361E have dip tubes. When using sweat fittings, do not apply heat to the nipples. Pipe hot and cold lines with a union and valve on each line.

If backflow preventers and pressure regulators are installed or if the heater is installed in a closed system, allow for water expansion by installing either a thermal expansion valve or an expansion tank in the system. Contact the local water supplier or plumbing inspector to correct the situation.

Piping components and connection materials (eg, solder, solvent cement, thread joint compounds) used in space heating systems and connected to the service water heater shall be suitable for use with potable water. Toxic chemicals such as those used for boiler treatment shall not be introduced into the potable water system that is also used for space heating. A water heater that will be used to supply domestic hot water shall not be connected to the heating system or connected with components previously used with a non-potable water heating appliance.
A thermostatically controlled anti-scald valve meeting requirements of CSA B125 or ASSE 1016 or 1017 should be used to temper the domestic hot water supply to fixtures to 49°C (120°F). See Figure 1 for proper installation of antiscalid valve.

The temperature and pressure (T&P) relief valve has been factory installed.

To prevent water damage when relief occurs, install a discharge line from the relief valve outlet to a place for water disposal. Do not install a reducing coupling or other restriction in the discharge line. Arrange the line to allow complete drainage of both the relief valve and the discharge line. If the T&P relief valve discharges periodically, service to the water system is required.

Do not place a shut-off valve between the relief valve and the water heater.

**Check hand holes for tightness.**

The oil tank location and installation, tank size, piping supply and burners, including all fuel handling components must comply with the applicable codes for oil-burning equipment (CAN/CSA-B139 or NFPA 31, local codes and regulations).

The oil supply tank must be installed with fill and vent lines of adequate capacity. See Figure 2 for installation diagram.

The water heater requires fuel (#1 or #2 heating oil), electricity and should be closed to the chimney and water supply. Do not use gasoline, crankcase drainings, or any oil containing gasoline. Never burn garbage or paper in the unit, and never leave paper or rags around it.

1. The operating thermostat and high limit are packed with the burner. Mount the burner with bolts provided. Burners are shipped with all settings at the approximate start point. Check inside the combustion chamber to verify that the burner tube is not obstructed or protruding into the chamber. Swing back the hinged transformer and rotate the blower wheel by hand a few turns to loosen the pump seal.

2. Bock recommends a two-pipe (suction and return) system for these heaters. Use 1/2” O.D. soft copper tubing (5/8” O.D. soft copper on Sun Tech H pumps) and install a bypass plug on two-pipe system. (See instructions packed with pump.) **Note:** Do not install a bypass plug if using a gravity (one-pipe) system (See Figure 3.) For multiple heater installations, run a separate suction and return line for each heater (See Figure 4.) If the combined lift and horizontal run exceeds 100’, install a booster pump as close to the supply tank as possible.

Booster pumps may be obtained from Sun Tec Hydraulics, Rockford, Ill.

3. Return lines must be the same diameter as suction lines and extend close to the bottom of storage tank but stop slightly above suction lines. Use a minimum of fittings and make bends in tubing with as large a radius as possible. Always use flared fittings, not compression fittings. If pipe is used instead of tubing, do not connect the burner to the pipe – use copper tubing and form a coil before attaching tubing to burner.

4. When installing an oil water heater with an existing oil tank and lines, check existing line sizes and compare to instructions shipped with the pump to see if they are adequate. Do not use existing lines if they are smaller than 1/2” O.D. tube on Models 361E and 541E. Proceed as follows:

A. If existing oil heater has a one-pipe system, tee into the system to furnish oil to the heater.

B. If the existing oil heater has a two-pipe system, check whether the return line extends to the bottom of the tank. It may be preferable to change the existing oil heater to a one-pipe system and change the return line to the suction line for the heater.

C. If (B) is not applicable, tee into the existing suction line and the existing return line to supply oil to the heater. Both suction and return lines must extend to the bottom of the tank, but if the tubing is too small and a two-stage pump is on the existing oil appliance, the water heater pump may be starved for oil.

D. If return lines do not extend to the bottom of the tank, use check valves on each suction line as close
ELECTRIC WIRING

Wiring must be done in accordance with the National Electrical Code and local ordinances. Burners are supplied with an operating thermostat (Honeywell L4103A or Carlin EZ-Temp 90000B on 72E, Honeywell L4006A or Carlin EZ-Temp 90000C or Carlin EZ-Temp 90300B on the 361E, and Honeywell L8100C or Carlin EZ-Temp 90300B on 541E). Models 361E and 541E equipped with Honeywell controls are also supplied with a separate L40801B high limit (see wiring diagrams). The operating thermostat should be set at 120°F for normal domestic hot water use; higher temperatures increase the risk of scalding. Do not set higher than 180°F. The differential control wheel on the L4006 control (361E) should be set to 15°F. The high limit control (L4080B used on 361E and 541E) should be set 20°F or higher above the operating thermostat setting. The maximum setting is 200°F.

CONNECT TO CHIMNEY

The water heater shall be connected to a vent system having sufficient draft at all times to ensure safe and proper operation of the unit. Using “L” or “A” type venting, connect the heater to the chimney. The size of the connector shall not be smaller than the size of the flue on the water heater. Run a separate connector from the heater to the chimney where possible. If the heater must be joined to another oil appliance connector before going into the chimney, enlarge the existing connector to accommodate the extra volume of gases from the heater. The entrance into the connector should be at a 45° angle.

E. Before teeing into an existing oil line, check the vacuum gauge in the 1/4" inlet port or the vent opening. A single-stage pump should not exceed 12" hg vacuum and a two-stage pump should not exceed 17" hg vacuum on two-pipe systems.

If the heater performs poorly, recheck the vacuum reading – a high reading will indicate too much resistance. This could be caused by a clogged filter, a restricted shutoff valve, kinked tubing, an obstruction in the oil line, excessive lift or too long a run.

F. If none of the above installations are suitable, Bock recommends an oil booster pump located as close to the oil supply as possible. Use the existing supply and return lines for the booster pump. Change the existing unit to a one-pipe system and tee off the one pipe to supply oil to the water heater.

WARNING: When an appliance using a float valve between the supply tank and the burner is connect-ed to a supply tank with a capacity over 40 L (9 imperial gallons), a valve operated by a fusible link shall be installed in the fuel line adjacent to, and upstream from, the float valve.

PUTTING HEATER INTO OPERATION

Fill the heater with water, opening a hot water faucet to allow trapped air to escape. Check handholes for tightness. Check the fuel supply and all fuel lines for tightness. Rotate the blower wheel to loosen the pump shaft seal. Bleed air from the oil line by opening the bleed valve on the fuel pump. Attach a small plastic tube to the bleed valve fitting on pump and run to a gallon container. Turn on the electricity and set the thermostat so the burner motor runs. The heater will not ignite when the bleed valve is open. Bleed the line until the oil is completely clear (not milky or opaque), transparent and free of air bubbles and froth.

Shut the bleed valve and the burner will ignite. Remove the plastic tube. To keep the burner control from locking out while bleeding, attach a jumper between the flame detector terminals after starting the burner (remove the jumper when done). Double-check control settings as described previously.

1. Start the burner and verify draft at the breech is between -.02" W.C. and -.05" W.C.
2. Verify that the pump pressure matches the values in the chart.
3. Check the smoke and adjust the air to give #1 smoke.
4. Readjust to give a trace or zero smoke.
5. Check that the CO₂ level is at 11% or higher. Note: Do not attempt to adjust the burner without instruments.
6. Open the air adjustment to lower the CO₂ by .5% or 1% to allow for draft and fuel variations (refer to the burner manufacturer’s recommendations).

If the heater performs poorly, recheck the vacuum reading – a high reading will indicate too much resistance. This could be caused by a clogged filter, a restricted shutoff valve, kinked tubing, an obstruction in the oil line, excessive lift or too long a run.

SERVICE:

The thermostat has been adjusted to 120°F at the factory to reduce the risk of scald injury. Wait until thermostat has shut off fuel to the main burner; wait 30 seconds following shut off of fuel, then set thermostat to the highest temperature. The main burner should re-light. Set thermostat to the lowest temperature; the main burner should go out. The thermostat should be adjusted in accordance with the local codes or to the minimum setting that will meet the hot water needs of the consumer. Bock recommends 120°F temperature settings for residential applications for safety as well as energy efficiency.

1. Check the fuel supply, electrical wiring and fuses. Make sure the temperature control is set for heat.
2. If the motor runs but there is no flame, remove the electrode assembly, clean and readjust. Check the electrode porcelain for cracks and replace if necessary. Check the transformer to see if it is producing a strong spark. (Use extreme caution – the transformer has a 10,000 volt output.) Check that the coupling between the motor and pump shaft is not slipping. Check the set screw on the blower shaft seal. Bleed air from the oil line by opening the bleed valve on the fuel pump. Attach a small plastic tube to the bleed valve fitting on pump and run to a gallon container. Turn on the electricity and set the thermostat so the burner motor runs. The heater will not ignite when the bleed valve is open. Bleed the line until the oil is completely clear (not milky or opaque), transparent and free of air bubbles and froth.

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wheel for tightness. Clean or replace the nozzle if necessary, always using the correct size and spray angle provided by the manufacturer.

3. Bleed the pump to make sure the oil is clear and free of air bubbles. If the oil is milky or frothy, check the line for air leaks at fittings. Check the oil filter gaskets and make sure the filter cartridge is clean.

4. If the burner motor does not run, check the motor thermal overload button (red) and reset. If the burner motor does not run after pushing the red button on the back of the motor, turn the motor off and check the motor shaft to see if it is tight. Check the pump shaft; if it is free and the motor will not run, replace the flame detector located in the burner housing. Turn on the current and reset the control (relay). If the motor still does not run, replace the control (relay). If motor hums and gets hot, replace the motor.

5. If the burner ignites and runs a short time (10 to 15 seconds) and goes out on safety, replace the flame detector. If the burner still runs only a short time, replace the control.

6. The smell of oil or combustion products may be caused by poor draft or lack of combustion air. Remove and clean the electrode assembly and check the draft in the connector directly above the heater. There should be at least .01 inches W.C. draft (pull) or greater.

Lime and sediment: Such accumulations can be controlled to an extent by softening the water. The tank should be inspected every six months by draining the tank, removing the hand hole cover, and making a visual check of the tank interior. If lime (or sediment) has accumulated, it should be removed by use of a commercial lime dissolving chemical or by scraping loose the deposit and flushing it away through the hand hole or drain.

Excessive pressure is controlled by the T&P relief valve. Water expands when heated and the extra volume of water must have a place to go. If water cannot expand into the cold water line because of a check valve, pressure builds as the water heats. The pressure relief valve opens, and dumps the extra volume of water. If the relief valve is faulty or none has been installed, the tank can fail due to this excessive pressure. Open the relief valve at least once a year to make sure the seat is not stuck.

Caution: Before opening the relief valve be certain that the discharge line directs the water away from anything that could be damaged or would block the flow of water to the drain. Stand away from the outlet to avoid contact with the water.

Rods are installed in the head of the tank to help prevent corrosion of the tank. When inspecting the tank interior for lime or sediment accumulations, also inspect the condition of the anode rods. When either rod has eroded to about one third of its original diameter, it should be replaced.

Vent system should be checked at least once a year for damage and/or blockage.

If the water heater is to be shut off during cold weather, the tank and water lines should be drained to prevent freezing and piping damage. Please see warning on hydrogen gas buildup on page 1. IMPORTANT! The water heater warranty will be invalid if the tank fails due to excessive pressure, the accumulation of lime or sediment, corrosion, or freezing. The Bock Water Heaters warranty (back page) explicitly documents further causes of invalidation.
This is a tank assembly parts list. When ordering repair parts, always give the part name, heater number (size) and serial number.

**ITEM DESCRIPTION**

1. Cold water inlet dip tube (not on 541E)
2. Plastic cap
3. Anode rod
4. Top pan
5. Hot out connection
6. Tank
7. Outer jacket
8. Relief valve
9. Aquastat
10. Drain valve
11. Burner mounting bracket
12. Burner mounting gasket
13. Bottom pan
14. Combustion chamber sleeve
15. Combustion chamber
16. Inspection plug
17. Inspection plug
18. Burner
19. Relay
20. Handhold cover plate
21. Handhold cover gasket
22. High limit
23. Cad cell

Please have burner make, model and serial number available when ordering parts.
LIMITED WARRANTY FOR OIL-FIRED WATER HEATER

WHAT DOES THIS LIMITED WARRANTY COVER?
This limited warranty applies only to the original consumer purchaser.

General Defects and Malfunctions: This warranty covers defects and malfunctions in your new water heater for a period of one year from the original installation date. We will repair or replace, at our option, any defective or malfunctioning component of the water heater. This limited warranty will terminate if you sell or otherwise transfer the water heater, or the water heater is installed at a location different from its original installation location.

Tank and Heat Exchanger: We also warrant that the tank and heat exchanger will not leak due to defective materials or workmanship for three years from the date of original installation or from date of manufacture in the event the Limited Warranty Registration Card was not completed and returned to manufacturer. If the tank and heat exchanger is leaking and we have verified that the leak is due to a defect in materials and workmanship, we will replace the tank with a tank that is the nearest Bock model available at the time of replacement. If a replacement tank is provided, it will remain warranted under this section as if it were the original tank. For example, if we send you a replacement tank under this limited warranty two years after the original installation date, then the replacement tank will remain warranted for the remaining one year after the original installation date.

HOW DO YOU GET SERVICE UNDER THE LIMITED WARRANTY?
In order for the warranty period to begin on the date of installation, you must return the warranty registration card attached below within 30 days of purchasing the water heater. You may also register your water heater online at www.bockwaterheaters.com. You must have a copy of the original sales receipt at the time you request service. Failure to return the warranty registration card and provide a copy of the sales receipt will result in the warranty period beginning from the date of manufacture.

To get service under this limited warranty you should contact either the dealer or installer. If dealer or installer is unknown you can contact us via e-mail at warranty@bockwaterheaters.com or call us Monday through Friday between the hours of 8 o'clock a.m. to 5 o'clock p.m. Central Time at the following number: 1-608-257-2225. You can also write us at the following address: Bock Water Heaters, Inc., Warranty Support Group, 110 S. Dickinson St., Madison, WI 53703. We will respond not later than ten days after we have received your request for service.

WHAT DOES THIS LIMITED WARRANTY NOT COVER?
This limited warranty does not cover water heaters that are or were:

- Incorrectly installed, especially where the installation violates state or local plumbing, housing or building codes.
- Operated at inappropriate settings, excessive pressures or temperatures.
- Exposed to adverse local conditions and specifically sediment or lime precipitation in the tank or corrosive elements in the atmosphere or unacceptable water quality.
- Installed outside the United States or Canada.
- Accidentally damaged.

Also, we will not cover the following charges, costs and losses:

- Any freight or delivery charges.
- Any removal or installation charges.
- Charges to return the water heater or part to the manufacturer.
- Water damage, loss or damage to property, inconvenience or loss of use.

WHAT WILL VOID THE LIMITED WARRANTY?
If you do any of the following, you will void this limited warranty:

- Fail to retain an original copy of your sales receipt.
- Fail to retain the actual rating plate from the water heater.
- Alter or remove the serial number.
- Transfer or sell the water heater.
- Remove the water heater from its original location and install it somewhere else.
- Fail to follow the care and maintenance instructions provided with the water heater.
- Remove the anode rods.
- Fail to inspect and replace the anode rods (you must retain and present your paid receipts as proof of anode rod replacement).
- The use of any burner and/or controls other than the ones specified for the water heater by Bock Water Heaters Inc.

HOW DOES STATE LAW RELATE TO THIS LIMITED WARRANTY?
This is a limited warranty. WE MAKE NO OTHER EXPRESS WARRANTIES WITH RESPECT TO THIS WATER HEATER. We will not assume, nor authorize any person to assume for us any other liability in connection with the sale or operation of this water heater. ANY IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR APPLICATION, IMPOSED ON THIS SALE UNDER THE LAWS OF THE STATE OF SALE ARE LIMITED TO ONE YEAR. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

WE WILL NOT BE RESPONSIBLE FOR WATER DAMAGE, LOSS OF USE OF THE UNIT, INCONVENIENCE, LOSS OR DAMAGE TO PERSONAL PROPERTY, WHETHER DIRECT OR INDIRECT, AND WHETHER ARISING IN CONTACT OR TORT. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.