Congratulations on your decision to place your confidence in a superior WaterBoss® water treatment appliance.

Recognized worldwide for built-in quality, dependability, and ease of service, WaterBoss® appliances represent state-of-the-art in home water treatment. Important information is contained in this manual which will help you get the maximum benefit and enjoyment from your particular model.

We urge you to read this information carefully now and any time a malfunction may occur. In most cases, these reviews will uncover minor problems that you can correct yourself, thereby saving you time.

When calling the HelpLine, please have this guide and the serial number available. From 8 am to 5 pm EST, call 1-800-437-8993. Your serial number may be found on top of your valve assembly (See figures 2-3.)
Questions

From 8 am to 5 pm EST, use the 800 HelpLine: 1-800-437-8993
The HelpLine is available to help answer questions about specific water problems, appliance installation and operation. When calling the HelpLine, please have this guide and the serial number of your appliance available. Your serial number may be found on top of your valve assembly (See figures 2-3.)

Date of Installation: __________________________________
Model Number: ____________________________
Serial Number: ____________________________
Returned Limited warranty Card Date: ________________
How To Get The Maximum Efficiency From Your Appliance

1. Fill salt cabinet when water level is above salt level. DO NOT MIX DIFFERENT TYPES OF SALT. If iron is present in your water, use a salt with an iron-cleaning additive to help keep resin clean. You may also use a resin cleaner on a monthly basis in place of salt with cleaning additives. If iron is not present in your water, a clean pellet, solar or cube type salt is recommended. The use of rock salt is not recommended because it contains impurities that can plug up the injector assembly.

2. You may use a salt substitute (such as potassium chloride) in place of water conditioner salt. If you start with water conditioner salt, you can switch to a salt substitute at any time - or vice versa. If potassium chloride is used in place of nugget or pellet salt, increase your hardness setting by 12% (multiply by 1.12). Do not use Potassium Chloride if there is iron in your water.

3. Should your electricity be turned off for any reason you must reset the time of day if you programmed your appliance for delayed regeneration.* (see page 16)

4. Protect your system from freezing, including drain line.

5. By-pass the appliance when servicing the well, plumbing, or pump. When work is completed, turn on the nearest cold water tap until water runs clear before putting appliance back in service. See figures 4 - 5 - 6.

6. Install after the pressure tank.

* Excludes WaterBoss® 550 model.

When calling the HelpLine, please have this guide and the serial number available.
Checklist Before Installation

1. **Water Pressure** - Not less than 20 psi constant for **WaterBoss®** softeners.

2. **Double check hardness** - of water with test strips provided to verify that your **WaterBoss®** is the right appliance for the job.
   - **WaterBoss® 550** for MUNICIPALLY-SUPPLIED WATER is for water without iron and up to 25 grains of hardness per gallon.
   - **WaterBoss® 700** for up to 70 grains hardness per gallon.
   - **WaterBoss® 900** for up to 90 grains hardness per gallon. (See specifications, page 30.)

3. **Water Supply Flow Rate** - 5 gallons per minute is recommended as minimum.

4. **Drain** - Drain appliance to floor drain or washer drain. To prevent back-siphoning, the installer must provide an adequate air gap or a siphon break. See figure 1.

5. **Electricity** - The transformer supplied is a standard 120 volt, 60 cycle A.C. for USA or 220 volt, 50 cycle A.C. for outside the USA. See figure 8.

6. **Water Quality** - If the water supply contains sulfur, bacteria, iron bacteria, tannins, algae, oil, acid or other unusual substances, then unless the system is represented as being capable of treating these contaminants in the specifications, other special treatment of the water supply must be used to remove these contaminants before they enter this product.

   **If you have any questions call our HelpLine!**

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Do’s And Don’ts

**SOME DO’S**

1. Do comply with all local plumbing and electrical codes.
2. Do install pressure-reducing valve if inlet pressure exceeds 90 psi.
3. Do install gravity drain on salt storage cabinet. See figure 7.
4. Do secure drain line on appliance and at drain outlet. See figure 3.
5. Do allow a minimum of 8 to 10 feet of 3/4" pipe from the outlet of the water conditioner to the inlet of the water heater. See figure 1.

**SOME DON’TS**

1. Do not install if checklist items are not satisfactory.
2. Do not install if incoming or outlet piping water temperature exceeds 120 degrees Fahrenheit. Please see specification on pages 30.
3. Do not allow soldering torch heat to be transferred to valve components or plastic parts.
4. Do not overtighten plastic fittings.
5. Do not place appliance right up against a wall which would deny access to plumbing. See figure 1.
6. Do not install the appliance backwards. Follow arrows on inlet/outlet. See figure 2.
7. Do not plug the transformer into an outlet that is activated by an on/off switch. See figure 8.
8. Do not connect the drain and the overflow (gravity drain) together. See figure 1.

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Use this diagram as a location and installation guide for your WaterBoss® 700, WaterBoss® 900, and WaterBoss® 550, water conditioners. This diagram applies to all types of installations (i.e. basement, slab, crawl space, outside).

Bypass Valves. To simplify installation and servicing, a one-piece or a three way bypass valve system is recommended when installing your appliance. A bypass system also provides access to untreated water when required (i.e. for lawn and gardening purposes.)

Also, see figures 4 through 6.

Caution: If less than 10 feet of pipe connect the water treatment appliance(s), to the water heater, then a Check Valve must be installed between the water treatment appliance and the water heater. Install the Check Valve as close to the water heater as possible.

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PLUMBING CONNECTIONS

CAUTION! The drain line must not be kinked, crimped or restricted in any way. The drain line should be 1/2” inside diameter and cannot be reduced in size.

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Figure 9

Figure 10

ADDING SALT TO THE BRINE CABINET
WaterBoss® 700, WaterBoss® 900, and WaterBoss® 550

2 GALLONS
Water by-passes your appliance during regeneration to allow iron, sediment, hardness, etc. to be washed down the drain. After regeneration, WaterBoss® returns to service, providing your home with treated water.

Regeneration cycles:

1. First up-flow backwash. A rapid up-flow of water flushes out the resin bed and cleans the sediment filter.
2. Brine. Brine is drawn out of the brine cabinet and up through the media tank, cleaning the resin bed and releasing accumulated hardness and iron.
3. Slow rinse. A slow up-flow rinse process then flushes out the brine, hardness and iron.
4. Second up-flow backwash. This up-flow backwash flushes out any remaining brine solution and sediment from cycle 2.
5. Downflow soft water brine refill. Soft water is directed to the brine cabinet to prepare the brine for the next regeneration sequence.
6. Return to service. Regeneration is complete and the appliance is returned to normal operation.
Cycles

Figure 11

1 First up-flow backwash
2 Brine
3 Slow Rinse
4 Second up-flow backwash
5 Downflow soft water brine refill
6 Return to service

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All Water Conditioners Are Not Created Equal.

Conventional Water Conditioner Exhaust Pattern. 
Much of your resin could be wasted!

![Diagram of Exhausted Resin, Regenerated Resin, and Water in a tank]

Directional Flow Screen Distribution System
Directs flow evenly through bed for most efficient use.

![Diagram showing directional flow and screen]

Exhaust Pattern assures more usable resin capacity.

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Installation And Start-Up Procedures

Each *WaterBoss*® water conditioner and filter includes water test strips and 8’ of drain line.

1. Placement: Place your *WaterBoss*® appliance in desired location. Turn off electricity and water supply to water heater. Make sure inlet/outlet and drain connections meet the applicable local codes. Check arrows on valve to be sure water flows in proper direction. See figures 1, 2, & 3. **CAUTION: DO NOT PLUMB APPLIANCE IN BACKWARD.**

2. Drain Line: must be a minimum of 1/2”-5/8” I.D. tubing and should make the shortest run to a suitable drain. The drain line may be elevated up to 8 feet from the discharge on the appliance as long as the water pressure in your system is 40 psi or more. If drain line is 25’ or longer, increase drain line to 5/8” I.D. Also, the end of the drain line must be equal in height or lower than the control valve. See figure 1. All overhead drains for filter installations must be 3/4” I.D.

3. Flushing: Before placing your *WaterBoss*® appliance in service, it is very important to flush the cold water lines of any debris. Turn on water supply, open the nearest cold water tap and let the water run for 2 to 3 minutes until the water flows clear. Then put the by-pass in the Service position. See figures 4 through 6.

4. Check Leaks. Close faucet and check for leaks. If leaks are found, turn off main water supply and open the nearest cold water faucet to depressurize lines. Close faucet to eliminate siphoning action. Repair leaks. Turn on water supply and electricity to water heater. Place the bypass valve in the Service position. See figure 6.

5. Connect Overflow Line. The overflow line must end at a drain that is at least 3” lower than the bottom of the overflow fitting. It is a gravity line and cannot be run overhead. See figure 7.

6. Complete The Installation. Open a cold water tap and allow the appliance to flush for 20 minutes or until approximately 72 gallons has passed through the appliance per NSF requirements.

7. Plug In Transformer. See figure 8.

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Installation And Start-Up Procedures

8. Setting Number. For WaterBoss® 700, 900, and 550 for municipally-supplied water, determine your controller setting number. Do not guess at the setting; continued water quality problems or damage to the unit could result. Municipal water - call your local water company to determine your water hardness in grains per gallon. This will be your setting number. Or, follow the instructions on the hardness test strip provided with your WaterBoss® 550 to determine your hardness reading. This will be your setting number.

Well water - follow the instructions on the pH and hardness test strips provided with your WaterBoss® to determine the pH and hardness of your water. Iron adjustment: if pH is 7 or above and you know your water has iron, add 15 to your hardness reading in grains per gallon and enter the result as your setting #.

Example: hardness in grains per gallon from test strip is 20 + 15 = 35 = setting #. This is a temporary setting until you have an accurate water test.

If the result of your hardness test strip reaches the test maximum of 25 grains per gallon, mix 1 cup tap water with 1 cup distilled water, then retest for hardness. Multiply your reading x 2 and use this number as your setting number. If the test strip result is still 25 grains per gallon, call your HelpLine. Or, contact the company below to test for hardness, iron and pH.

WATERSCREEN
National Testing Laboratories, Inc.
1-800-458-3330 - 9 am - 5 pm EST

If you feel you have an abnormal amount of iron, push the powerClean® button for models WaterBoss® 700 and WaterBoss® 900 only. Also, be sure to use salt with an iron-cleaning additive. Be aware that WaterBoss® 550 for municipally-supplied water is not designed to treat water with iron. If pH is below 7, Call your HelpLine.

9. Adding Water & Salt. Be sure to remove any packaging or installation materials before adding salt. Next, add not more than 2 gallons of water to the brine cabinet. Then add salt to the brine cabinet, wait 2 hours then push the immediate recharge button and hold for 5 seconds. A regeneration cycle will begin and continue as follows: WaterBoss® 900, 53 minutes; WaterBoss® 550 for municipally-supplied water, 31 minutes; and WaterBoss® 700 38 minutes. After the first regeneration, your softener will automatically refill the correct amount of water in the brine cabinet. See figure 10.

10. Refill Salt when the salt level drops below the water level in the brine cabinet. Always keep salt above water level. See figure 10

CAUTION! Failure to install, operate and maintain your water treatment appliance as instructed will VOID the product limited warranty.

NOTE! Make sure the Owner’s Limited warranty Card is filled in and mailed within 30 days of installation. NO POSTAGE REQUIRED.
DEMAND REGENERATION

You won’t have to worry about vacation settings or extra guests because the controller measures water usage and regenerates based on need. The appliance will regenerate using only the necessary amount of water and salt. If power has been turned off, your appliance will retain programmed settings indefinitely. See figure 9.

1) ENTERING YOUR HARDNESS SETTING
See page 14 for determining your setting number. The water hardness setting number shown in the digital readout will increase 1 grain each time you push the "SET" button. After 70 grains for WaterBoss® 700 (90 grains for WaterBoss® 900 and 25 grains for WaterBoss® 550) the read-out will return to 1, and continue to count up from 1 until the display number matches the hardness number. After 5 seconds the display will change to show "gallons remaining (x 100). To recheck the hardness, touch "SET."

2) GALLONS REMAINING
After setting water hardness, gallons remaining until the next automatic regeneration is shown in the digital display. NOTE: Gallons remaining are in hundreds. 12=1,200 gallons

3) RECHARGE/REGENERATION STATUS
Regeneration cycle numbers are shown during regeneration. The read-out will flash with the cycle number. The flashing regeneration numbers are:
   (C1) First Backwash
   (C2) Brine/Slow Rinse
   (C3) Second Backwash
   (C4) Brine Refill
   (HO) Service
See pages 11 and 12 for cycle descriptions and illustrations
To quickly advance through the regeneration cycles, press and hold the Regenerate button for 2 seconds. Wait for the cycle to begin, after 20 seconds press and hold the Regenerate button until the cycle number changes (about 2 seconds.) Each cycle can be advanced in this manner.

4) waterMizer
The waterMizer® wheel will turn whenever water is being used. See figure 9.

5) REGENERATE
To start an immediate regeneration, press The Regenerate button and hold for 3 seconds. The Regenerate button is used when starting your water conditioner, to start an immediate regeneration, or to restore capacity if you have run out of salt. If your WaterBoss® has run out of salt, you may not have soft water available. Remove the salt lid and add salt. Wait two hours, then press the "REGENERATE" button and hold for 3 seconds. See figure 9.
6) POWERCLEAN
The powerClean feature is a service/maintenance step for water supplies that have an excessive amount of iron. Activating this feature is a simple push of the powerClean button on the controller. PowerClean will appear in the display when this feature is activated. The appliance will regenerate every other day with five pounds of salt. Leave the powerClean feature on for a minimum of two weeks. The frequent regeneration will eliminate iron buildup in the resin bed. The use of salt with an iron cleaning agent or iron out cleaner is recommended for continuous use as a preventive measure against iron fouling of the resin bed. To deactivate this feature, simply press the powerClean button. Use this feature every six months as a part of your routine maintenance procedure to insure a long service life for your water treatment appliance. See figure 9.

HARDNESS SETTINGS
1. Hold down SET for 3 seconds to enter basic customer settings mode.

2. "Set Hardness" and a default hardness number is now displayed. Pressing and releasing the CHANGE button will increase the hardness setting # by one. As a shortcut, pressing and releasing the POWER CLEAN button will advance the display by 10. But the CHANGE button alone can be used to advance the display one digit at a time to the correct number. If "Gallons x100" was selected, 01 = 100 gallons. If "Liters x 1000" was selected, 01 = 1,000 liters. Pressing and releasing SET will save the hardness number and put the unit into operation. The unit is now ready for use as recommended. To fine-tune the programming further

ADVANCED CUSTOMER SETTINGS:
Your WaterBossfi can be programmed for High Capacity (HC) or High Efficiency (HE). High Capacity means the unit will regenerate less often, but use more salt. High Efficiency will make the unit regenerate more often and use less salt. See Specification/Capacity Chart, pg. 30.

1. Hold down SET and CHANGE for 3 seconds to enter advanced customer settings mode. While SET and CHANGE are being held down, the display should show only the controller type (see chart below). After the 3 seconds, the entire screen is lit for a half second, and then "HC" will appear.

2. Pressing and releasing the CHANGE button will toggle the digit display between "HC" and "HE". Pressing and releasing the SET button will advance programming to the next step. Default is "HC".

3. The controller will now display "Demand Mode." Each press of the CHANGE button will switch between "Demand Mode" and "Delayed Mode".

Delayed Mode allows regeneration at a specific time (e.g. at 2am when less water is being used.) Demand Mode triggers a regeneration as soon as softening capacity is exhausted.

Pressing and releasing the SET button will advance programming to the next step. Default is "Demand Mode".
4. "96 Hours" is now displayed. Pressing and releasing the CHANGE button will toggle this on and off.

If "96 Hours" is selected, the unit will work no more than 4 days without a regeneration. Note: If there is iron in your water, select this option.

Pressing and releasing the SET button will advance programming to the next step. Default is for "96 Hours" to be ON.

5. "Gallons X100" is now displayed. Pressing and releasing the CHANGE button will toggle between "Gallons X100" and "Liters X1000". Choosing gallons sets the controller to English units, and choosing liters sets it to metric units. Pressing and releasing the SET button will advance programming to the next step.

6. If "Gallons" was chosen "12" is now displayed. If "Liters" was chosen "24" is displayed. Pressing and releasing the CHANGE button will toggle between "24" and "12". This controls the selection of a 12-hour (AM/PM) or 24-hour clock. If 24-hour, 00=midnight. Default is "12".

7. "Set Time" and "12" is now lit. To set the time, press and hold the CHANGE button to advance the numerical display, and switch from "PM" to "AM" if appropriate. Note: set the time to the nearest hour. Pressing and releasing the SET button will save the time displayed and advance to the next menu. Pressing and releasing the SET button will advance programming to the next step. Default is 12 PM.

8. "Set Reg. Time" and "02" is now displayed. To set the regeneration time, press and release the CHANGE button to advance the numerical display. Pressing and releasing the SET button will save the "regen. time" displayed and put the unit into operation. Default is 2 AM.

PROGRAMMING IS NOW COMPLETE

Alert!

"E1" Error message: If “E1” appears on the controller screen along with an audible beeping sound, the controller cannot find the home magnet disk position. Make sure the controller is firmly seated on all four “tabs” of the drive end cap. (See pages 18 and 22.). Note: if all is in place, and the motor and magnet disk do not turn, it could indicate an obstruction in the valve body.

"E2" Error message: If “E2” appears on the controller screen along with an audible beeping sound, the motor is disconnected. Plug in the motor. Wait 30 seconds or unplug/replug the transformer into the controller to re-set.
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Note: Parts 8, 9 and 11 are not field serviceable. Do not remove screws (#10).

<table>
<thead>
<tr>
<th>PART#</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3/4&quot; IO Adapter</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Turbine Sensor Assembly</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Turbine Sensor Cap</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Turbine Assembly</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>&quot;O&quot; Ring</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Flow Director</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Sensor Cap Screw</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Test Port / Sensor Housing O-ring</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Turbine Sensor Housing</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>Turbine Sensor Housing Screw</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>Turbine Axle</td>
<td>1</td>
</tr>
</tbody>
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## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No soft water after regeneration.</td>
<td>No salt in brine cabinet.</td>
<td>Add salt (refer to &quot;Regenerate&quot; Page 15)</td>
</tr>
<tr>
<td></td>
<td>Sediment in brine tank has plugged the brine line and air check.</td>
<td>Remove air check draw tube and flush with clean water. Clean injector assembly. Clean any sediment from brine cabinet.</td>
</tr>
<tr>
<td></td>
<td>Drain line is pinched, frozen or restricted.</td>
<td>Straighten, thaw or unclog the drain line.</td>
</tr>
<tr>
<td></td>
<td>Clogged injector assembly (page 20).</td>
<td>Remove injector cap and clean nozzle and throat with a wooden toothpick. Clean screen and replace throat if removed.</td>
</tr>
<tr>
<td></td>
<td>Salt bridge has formed.</td>
<td>High humidity or the wrong kind of salt can create a salt bridge. This is a crust that forms an empty space between the water and salt. To test, use a blunt object like a broom handle. Push the handle into the salt to dislodge the salt bridge.</td>
</tr>
<tr>
<td>No soft water.</td>
<td>The plumbing bypass valve is in the the bypass position (page 7).</td>
<td>Place bypass valve in the service position.</td>
</tr>
<tr>
<td></td>
<td>Unit is plumbed backwards.</td>
<td>Check that unit is plumbed correctly.</td>
</tr>
<tr>
<td></td>
<td>Extended power outage.</td>
<td>Reset hardness (refer to “Regenerate” Page 15).</td>
</tr>
<tr>
<td></td>
<td>Water hardness has increased.</td>
<td>Reset water and reset hardness.</td>
</tr>
<tr>
<td></td>
<td>Not metering water.</td>
<td>Check waterMizer light. Light should flash with water usage. If no light, see below.</td>
</tr>
<tr>
<td>waterMizer light does not blink when water is flowing.</td>
<td>The plumbing bypass valve is in the the bypass position (page 7).</td>
<td>Place bypass valve in the service position.</td>
</tr>
<tr>
<td></td>
<td>Unit is plumbed backwards.</td>
<td>Check that unit is plumbed correctly.</td>
</tr>
<tr>
<td></td>
<td>Sensor not receiving signal from magnet on turbine (page 21).</td>
<td>Remove sensor from IO housing. Test by placing magnet on the sensor chip. If light glows, clean or replace turbine. If no light, replace sensor.</td>
</tr>
<tr>
<td>waterMizer light blinks when water is not being used.</td>
<td>There is a leak in your household plumbing system.</td>
<td>Repair the leak.</td>
</tr>
<tr>
<td>Read-out lights do not glow.</td>
<td>Electric cord is unplugged.</td>
<td>Plug in transformer.</td>
</tr>
<tr>
<td></td>
<td>No electric power at outlet.</td>
<td>Check power source. Make sure outlet is not controlled by a switch.</td>
</tr>
<tr>
<td></td>
<td>Defective transformer (fig. 8).</td>
<td>Test with volt meter for 12 VAC at control. If 0 VAC, replace transformer.</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read-out lights do not glow.</td>
<td>Defective circuit board (fig. 9).</td>
<td>With 12 VAC present at controller, replace circuit board.</td>
</tr>
<tr>
<td>Excess water in brine tank. Should be approx. 6 - 8” with salt for WaterBoss 700 and 550, and 8-10” for WaterBoss 900.</td>
<td>Restricted, frozen or pinched drain line. Plugged brine line, brine line flow control or air check (page 24). Plugged injector assembly (page 20). Sticking brine refill valve.</td>
<td>Remove restriction, thaw or straighten drain line. Clean flow control, air check and brine line. Clean any sediment from brine cabinet. Clean or replace injector. Replace throat if removed. Remove brine valve. Lubricate piston with silicone grease and reassemble.</td>
</tr>
</tbody>
</table>

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### Specifications/Capacity Chart

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>700</th>
<th>900</th>
<th>550</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum compensated hardness (grains)</td>
<td>70</td>
<td>90</td>
<td>25</td>
</tr>
<tr>
<td>Maximum ferrous iron reduction</td>
<td>10 ppm</td>
<td>10 ppm</td>
<td>0</td>
</tr>
<tr>
<td>Minimum pH</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Salt usage (lbs.) / Capacity (HC - High Capacity)</td>
<td>6.5 / 15,300</td>
<td>7.5 / 24,300</td>
<td>5.0 / 8,280</td>
</tr>
<tr>
<td>Salt usage (lbs.) / Capacity (HE - High Efficiency)</td>
<td>2.5 / 9,225</td>
<td>6.0 / 21,600</td>
<td>1.25 / 3,600</td>
</tr>
<tr>
<td>Maximum water temperature</td>
<td>120°F</td>
<td>120°F</td>
<td>120°F</td>
</tr>
<tr>
<td>Mineral tank size</td>
<td>10.5 X 14” I.D.</td>
<td>10.5 X 21” I.D.</td>
<td>10.5 X 14” I.D.</td>
</tr>
<tr>
<td>Peak flow rate / psi drop</td>
<td>16 gpm/15</td>
<td>10 gpm/14.5</td>
<td>10 gpm/15</td>
</tr>
<tr>
<td>Pressure drop @ service flow rate of 4 gpm</td>
<td>3.2</td>
<td>4.0</td>
<td>3.2</td>
</tr>
<tr>
<td>Maximum flow rate to drain during regeneration (backwash gpm)</td>
<td>2.0</td>
<td>2.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Water Pressure (minimum-maximum psi)</td>
<td>20 / 120</td>
<td>20 / 120</td>
<td>20 / 120</td>
</tr>
<tr>
<td>Minimum water volume required (gpm)</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Maximum Chlorine (ppm)</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Controller type</td>
<td>4 Button</td>
<td>4 Button</td>
<td>4 Button</td>
</tr>
<tr>
<td>Regeneration time (minutes) (HC - High Capacity)</td>
<td>38</td>
<td>53</td>
<td>31</td>
</tr>
<tr>
<td>Regeneration time (minutes) (HE - High Efficiency)</td>
<td>20</td>
<td>42</td>
<td>10</td>
</tr>
<tr>
<td>Water used/regeneration (gallons) (HC - High Capacity)</td>
<td>23.5</td>
<td>31.0</td>
<td>23.0</td>
</tr>
<tr>
<td>Water used/regeneration (gallons) (HE - High Efficiency)</td>
<td>14.5</td>
<td>25.5</td>
<td>12.5</td>
</tr>
<tr>
<td>Frequency of regeneration (days)</td>
<td>Demand</td>
<td>Demand</td>
<td>Demand</td>
</tr>
<tr>
<td>Salt Storage</td>
<td>120 lbs.</td>
<td>160 lbs.</td>
<td>120 lbs.</td>
</tr>
<tr>
<td>Height (in.)</td>
<td>25.75”</td>
<td>30.75”</td>
<td>25.75”</td>
</tr>
<tr>
<td>Footprint (in.)</td>
<td>14.75” X 18.75”</td>
<td>14.75” X 18.75”</td>
<td>14.75” X 18.75”</td>
</tr>
<tr>
<td>Electrical Rating</td>
<td>12VAC, 1 phase60 Hz</td>
<td>12VAC, 1 phase60 Hz</td>
<td>12VAC, 1 phase60 Hz</td>
</tr>
<tr>
<td>Plumbing Connections</td>
<td>3/4” MNPT</td>
<td>3/4” MNPT</td>
<td>3/4” MNPT</td>
</tr>
<tr>
<td>Shipping Weight - Approximate (lbs.)</td>
<td>85 lbs</td>
<td>105 lbs</td>
<td>85 lbs</td>
</tr>
</tbody>
</table>

When calling the HelpLine, please have this guide and the serial number available. From 8 am to 5 pm EST, call 1-800-437-8993. Your serial number may be found on top of your valve assembly (See figures 2-3.)
Limited Warranty

To Whom Warranty is Extended
This warranty is issued to the original owner at the original location site and is not transferable to other sites or to subsequent owners of the system.

TO PLACE THE EQUIPMENT UNDER WARRANTY, THE WARRANTY REGISTRATION CARD MUST BE COMPLETED AND RETURNED BY THE ORIGINAL OWNER TO WaterBoss® WITHIN 30 DAYS OF INSTALLATION.

Coverage
This limited warranty covers the WaterBoss® systems delivered to the original owner at the original location when the system is purchased for personal, family, or household use. It is intended to cover defects occurring in workmanship or materials or both.

Warrantor’s Performance and Length of Limited warranty - WaterBoss® warrants that upon receipt from the original owner of any mechanical or electronic part which is found to be defective in materials or workmanship, WaterBoss® will repair or replace the defective item for 3 years from date of original installation.

WaterBoss® further warrants that upon receipt from the original owner of any WaterBoss® media tank / valve body, brine cabinet, found to be defective in material or workmanship, WaterBoss® will repair or replace the defective item for 10 years from date of original installation.

All defective parts must be returned, along with the equipment serial number and date of original installation, to WaterBoss® PREPAID, and replacement parts will be returned by WaterBoss® to the original owner FREIGHT COLLECT.

FURTHER EXCLUSIONS AND LIMITATIONS ON WARRANTY
THERE ARE NO WARRANTIES OTHER THAN THOSE DESCRIBED IN THIS WARRANTY INSTRUMENT.

This warranty does not cover any service call or labor costs incurred with respect to the removal and replacement of any defective part or parts. WaterBoss® will not be liable for, nor will it pay service call or labor charges incurred or expended with respect to this warranty.

In the event the water supply being processed through this product contains bacterial iron, algae, sulphur, tannins, organic matter or other unusual substances, then, unless the system is represented as being capable of handling these substances in the system specifications, other special treatment of the water supply must be used to remove these substances before they enter this product. Otherwise, WaterBoss® shall have no obligations under this warranty.

This warranty does not cover damage to a part or parts of the system from causes such as fire, accidents, freezing, or unreasonable use, abuse or neglect by the owner.

This warranty does not cover damage to a part or parts of the system resulting from improper installation. All plumbing and electrical connections should be made in accordance with all local codes and the installation instructions provided with the system. The warranty does not cover damage resulting from use with inadequate or defective plumbing; inadequate or defective water supply or pressure; inadequate or defective house wiring; improper voltage, electrical service, or electrical connections; or violation of applicable building, plumbing, or electrical codes laws, ordinances or regulations.

CONSEQUENTIAL OR SECONDARY DAMAGES.
ANY IMPLIED WARRANTIES ON THE PRODUCT DESCRIBED IN THIS WARRANTY WILL NOT BE EFFECTIVE AFTER THE EXPIRATION OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Claims Procedures
Any defects covered by this warranty should be promptly reported to: WaterBoss®
4343 South Hamilton Road,
Groveport, Ohio 43125

In writing about the defects, please provide the original owner’s name, telephone number and original address, serial number and model number of the product, and date of purchase. WaterBoss® reserves the right to replace defective parts with exact duplicates or their equivalent.

For Owner’s Reference
Model No. _________________________________
Equipment Serial No. _________________________________
Installation Date _____________________________________
Installer’s Signature __________________________________

WaterBoss® will not accept any returns after 6 months from date of purchase.

Call: 1-800-437-8993
For Return Information