Since 1953
The Gold Series is tested and certified by the WQA to NSF/ANSI Standard 44 for the specific performance claims as verified and substantiated by test data. See the performance data sheets for specific reduction claims.

Part No.: 15860b
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For use in California

RainSoft Division of Aquion Water Treatment Products
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www.rainsoft.com

GOLD SERIES
WATER TREATMENT SYSTEM

Owner’s Manual

This product is manufactured in an ISO 9001:2000 certified facility.

The Gold Series is tested and certified by the WQA to NSF/ANSI Standard 44 for the specific performance claims as verified and substantiated by test data. See the performance data sheets for specific reduction claims.
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Congratulations! You now own the finest RainSoft Water Treatment System available to homeowners. To enjoy the maximum benefits of this system, please read the contents of this Owners Manual.

**Information on Water Treatment Systems**

There are many misconceptions that people have developed about water treatment systems. The most common topic of confusion is the amount of sodium (Na), not table salt (NaCl), that is added to the water from a water conditioner. In reality, ion exchange does replace the hardness ions in your water with sodium ions, but the common misconception is the amount used.

For every 1 grain of hardness, the exchange process will deliver approximately 8 milligrams of sodium per 1 liter of water. The amount of sodium present in a standard 8 ounce glass of treated water, that was 10 grains hard prior to treatment, would be around 19 milligrams of sodium. This is an insignificant amount of sodium considering a typical slice of white bread has about 140 milligrams.

Another common misconception of water treatment systems is the idea that soft water will produce clear ice cubes. Cloudy or white, hazy ice cubes are caused by air that is slowly being released from the water during the freezing process, which has nothing to do with the performance of your system.

The last misconception that needs mentioning is the amount of salt used by the conditioner to regenerate the system. People seem to think that water conditioners use an enormous amount of salt, which may have been the case in the past, but that was due to old technology and standards. Water conditioners do use salt for regeneration, but the amount of salt varies by water consumption. The more water that needs to be conditioned, the more times the system will regenerate, resulting in the use of more salt. Fortunately, today's technology allows us to dispense just the right amount of salt for maximum efficiency, based on your individual water consumption needs.

**Application Limitations**

On hardness levels of 60 grains and higher, the system may not achieve a hardness of less than 1 grain, due to high Total Dissolved Solids. (Some bleed through is possible.) Bleed through can also be caused by sodium levels higher than 1000 parts per million. In either case, your system can be programmed to minimize these effects. See your RainSoft Dealer for details.

Chlorine or Chloramine levels on municipality treated water should not exceed 4 parts per million.* When Chlorine or Chloramine levels are 4 parts per million* or greater, it can have adverse effects on your system. In applications where high levels are a concern, pre-filtration is necessary to reduce the Chlorine or Chloramine to an acceptable level. See your RainSoft Dealer for details.

When this system is installed on water with Ferrous iron, also known as clear water iron, the maximum range of removal is based on local water conditions. The range is generally 2 to 10 parts per million. Your equipment may require special programming, along with an additive to the brine tank, to maximize the equipment’s ability to remove iron. See your RainSoft Dealer for details.

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* Important Note: This system may be installed on well water or municipality treated water supplies.

* Important Note: Most municipality treated water supplies contain Chlorine as a disinfectant. Many municipalities also inject ammonia into the water supply, creating Chloramine.

* Maximum disinfectant level of Chlorine or Chloramine recommended from the EPA.

* Important Note: Oxidized or Ferric iron will foul the mineral bed. Iron fouled resin is not eligible for warranty replacement.
Operational Specifications

Plumbing
3/4 inch to 1 1/4 inch

Drain Line
1/2 inch

Water Pressure
20 psi – 120 psi (1.38 bar – 6.89 bar)

Operating Temperatures
40° F – 100° F (4.4° C – 37.8° C)

Electrical Requirements
A properly grounded alternating current supply (110 VAC 60 Hz or 230 VAC 50 Hz) is required for the operation of this system. Please check the transformer for the correct voltage requirements.

Bypass Valve
The bypass valve enables you to bypass the system in situations of: emergency leaks in the equipment, service calls and/or outdoor water use.

Existing Plumbing Conditions
Plumbing should be free from lime and/or iron buildup. Piping that contains large amounts of lime and/or iron should be replaced. If piping is clogged with iron, a separate iron filter should be installed in-line, before the water conditioner.

Additional Specifications
Do not install this system where water is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

This system must be installed in accordance with all applicable state and local laws and regulations.

This system must be installed in an area not affected by extreme heat, cold or the elements. The selected installation area must be adequate for easy service of all parts.

This system is designed to treat cold water only. The installation must be on a cold water supply.

Resin Data Chart

<table>
<thead>
<tr>
<th>Model</th>
<th>Tank Size</th>
<th>Resin** cu. ft.</th>
<th>Service Flow</th>
<th>Drain Flow</th>
<th>Psi Drop</th>
<th>High Salting</th>
<th>Medium Salting</th>
<th>Low Salting</th>
<th>Efficiency***</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQC 75 CV</td>
<td>8 x 44</td>
<td>0.75</td>
<td>9.3</td>
<td>1.50</td>
<td>15</td>
<td>28,100 @ 11.2 lbs.</td>
<td>24,000 @ 7.5 lbs.</td>
<td>13,400 @ 3.0 lbs.</td>
<td>4,470</td>
</tr>
<tr>
<td>AQC 100 CV</td>
<td>10 x 44</td>
<td>1.00</td>
<td>10</td>
<td>2.0</td>
<td>12</td>
<td>37,700 @ 15.0 lbs.</td>
<td>32,300 @ 10.0 lbs.</td>
<td>14,900 @ 3.0 lbs.</td>
<td>4,970</td>
</tr>
<tr>
<td>LQC 60 CT</td>
<td>10 x 35</td>
<td>0.60</td>
<td>10</td>
<td>2.00</td>
<td>10</td>
<td>15,000 @ 9.0 lbs.</td>
<td>11,800 @ 6.0 lbs.</td>
<td>6,800 @ 2.4 lbs.</td>
<td>N/A</td>
</tr>
<tr>
<td>AQC 100 CT</td>
<td>10 x 44</td>
<td>1.00</td>
<td>10</td>
<td>2.00</td>
<td>13</td>
<td>25,800 @ 15.0 lbs.</td>
<td>25,700 @ 10.0 lbs.</td>
<td>12,200 @ 3.0 lbs.</td>
<td>4,070</td>
</tr>
</tbody>
</table>

** Cation Exchange Media
*** The conditioners are efficiency rated according to NSF/ANSI 44. The efficiency of the conditioner is valid only at the stated salt dosage.
Salt Requirements

Two salt types are recommended for water conditioners:

1. Block Salt: Water conditioner block salt is reasonably priced, low in impurities and will not cake in the salt container.
2. Solar Salt: Solar salt is 98% pure salt, reasonably priced and low in impurities.

Resin Cleaners

It is always wise to provide preventative maintenance for your system. If small amounts of iron are present in your water, use a salt containing iron remover or add iron remover to the resin cleaner when adding salt. If an excessive amount of iron is present in your water, we recommend the installation of an iron filter before the conditioner. See your RainSoft Dealer for details.

Maintenance Requirements

Cleaning the Regeneration Valve

The regeneration valve is designed to last a lifetime, but from time to time it may be necessary to clean and lubricate the moving parts. Your water quality and the amount of regeneration necessary will affect this maintenance schedule. Your local RainSoft Dealer is knowledgeable in the different water qualities and will have the necessary parts to complete this service.

Testing Your Water

A hardness test strip is provided to ensure that the system is performing properly and that hardness is being reduced. Additional hardness test strips are available at no charge from RainSoft. Please call 1-800-860-7638 for your free two year supply.

In between testing, you can easily monitor the system's performance in the shower or while washing your hands. The feeling of soft water should be present on your skin.

Product Certification Information

The Gold Series is tested and certified by the WQA to NSF/ANSI Standard 44 for the specific performance claims as verified and substantiated by test data. Please refer to the performance data sheets for specific reductions claims.

Water treatment devices sold to retail consumers in California, accompanied by certain health claims, must be certified by the State of California Department of Health Services. These units are not certified by the State of California for the purpose of making health claims.
Installation Instructions

1. Safety Precautions
   • To prevent accident or injury, do not hoist the unit over your shoulder. Use a hand truck to transport the unit.
   • Do not lay the unit on its side.
   • Wear safety glasses and work gloves during installation and service.

2. Test the Raw Water
   • Test the raw water for hardness, iron and/or any other element that could affect the performance of the system.

3. Check the Water Pressure
   • Use a pressure gauge to confirm that the water pressure does not exceed 120 psi. If the water pressure does exceed this limit, install a pressure regulator on the inlet pipe of the unit. The minimum water pressure for a conditioner is 20 psi. 60 psi is the optimum operating pressure.

4. Locate a Site for the System
   • There are three primary requirements needed for a site: the main water source, a drain and an electrical connection. Locate the system as close to these items as practical. Avoid drain lines over 25 feet long. In most applications, bypass any outside faucets.
   • Place the system in the desired location. The location should have a level, smooth, and clean surface.
   • If the system is located outdoors, protect the unit from direct sunlight. Direct sunlight can damage the fiberglass and other system components. If necessary, build a box or shed.

5. Install the Valve Head (Not Applicable for LQC Models)
   • Remove the cap plug from the tank.
   • Lubricate the riser pipe o-ring and tank o-ring with the proper silicone lubricant.
   • Align the control valve with the riser pipe and slowly lower the control valve onto the riser pipe, using a twisting motion.
   • Align the control valve with the tank. Push down on the control valve and continue to turn it clockwise until the valve o-ring seals against the tank.

6. Turn Off the Water and Drain the Plumbing
   • Turn off the water at the meter or the pressure tank.
   • Drain all the pipes. Do not sweat pipes with water in them; steam will damage the plastic parts in the valve.
   • To drain the plumbing system, open all the faucets in the house and flush the toilets. The water will drain out of the lowest faucet or outlet.

7. Bypass the Outside Faucets
   • Install plumbing pipes to bypass the outside faucets. If the plumbing is not accessible, provide an untreated hose bib on the inlet pipe.
8. Install the Pipe Connector (Yoke) to the Bypass Valve

- Once the plumbing is complete, connect the yoke to the bypass valve (see figure 1).

- Support all plumbing connected to the yoke.
- Do not point the soldering torch directly at the mineral tank or control valve. These composite materials will last a lifetime, but cannot withstand the intense heat from a torch.
- Avoid short connections of pipe between the system and the water heater. If you can’t avoid a short connection, move the system to another location. As a last resort, install a heat trap or check valve. If this causes “water hammer”, install a water hammer suppressor.
- Connect the raw water supply to the inlet pipe connection of the yoke. When looking at the front of the system, the inlet is the pipe connection on the right side of the valve (see figure 2). The arrow molded into valve indicates the direction of flow.
- Connect the treated water pipe to the outlet pipe connection on the yoke. When looking at the front of the system, the outlet is the pipe connection on the left side of the valve (see figure 2). The arrow molded into the valve indicates the direction of flow.

9. Set the Bypass Valve to Bypass

- Move the bypass valve handles to the bypass position. The valve handles should be perpendicular to the pipes (see figure 3).
10. Install the Drain Line and Air Gap (Air Gap Not Supplied)

- For all drain lines, use at least a 1/2 inch ID line.
- Connect the drain line to the drain outlet on back of the valve, opposite the inlet connection (see figure 4). A fitting is required to connect the female pipe thread to the drain line.

![Figure 4](image)

- Run the drain line to the air gap. The air gap must be installed between the end of the drain line and the drain to prevent possible back siphoning (see figure 5).

![Figure 5](image)

Important Note: The air gap should be two times the diameter of the drain line or a minimum of two inches. Please check your local plumbing codes to ensure compliance.

11. Attach the Electrical Connection

- Remove the supplied wire from the warranty pack.
- Attach the U shaped connectors (supplied) to the wire with a crimping tool (not supplied).
- Connect the wire to the transformer (see figure 6).
- Insert the other end of the wire, with the connector, into the back of the control box (see figure 6).

![Figure 6](image)

- Plug the transformer into a 110 VAC 60 Hz or 230 VAC 50 Hz outlet.

Important Note: The air gap should be two times the diameter of the drain line or a minimum of two inches. Please check your local plumbing codes to ensure compliance.

Helpful Tip: Check the transformer label for the correct voltage requirement.

Helpful Tip: If the wire is too short, use the supplied connectors and shrink tubing in the warranty pack to lengthen the wire.

Helpful Tip: Squeeze the connector to release it from the box.
System Start Up

1. **Turn on the Water and Check for Leaks**
   - Close all faucets and turn the water back on at the water meter or pressure tank.
   - Check for leaks. If a leak is present, drain the plumbing again before soldering.

2. **Flush the Remaining Debris from the System**
   - Open the cold water faucet on your bathtub.
   - Allow the system to flush the remaining dirt and debris into the bathtub, until the water runs clear.
   - Open all remaining faucets and allow the plumbing to release any trapped air in the system.
   - Close all of the faucets.

3. **Open the Bypass Valve**
   - Move the bypass valve handles to the service position. The valve handles should be parallel to the pipes (see figure 7).
   - Open the bathtub faucet again and allow the system to fill with water for approximately 5 minutes.

4. **Flush the Remaining Untreated Water from the Water Heater**
   - Run hot water in the bathtub until the water tests soft.

5. **Program the Computer**
   - Please refer to the System Settings on page 12.

6. **Sanitize the Conditioner**
   - Mix a 3/4 cup of common (unscented) 5.25% household bleach with 1 quart of water. Pour this solution into the brine well.
   - Initiate a manual regeneration. The solution will be drawn into the conditioner during the regeneration process.
   - After the system has completed a manual regeneration, the conditioner will be sanitized and ready for use.
System Settings

The program/enter button is used as an “enter” or a “scroll” button when programming the system. The program/enter button allows you to access the four basic settings: S – Salt Level, A – Salt Alarm, h – Hour of Regeneration and P – Present Time of Day.

How to Adjust the Salt Pounds (S)

To set or change the salt level in the brine tank, press the program/enter button and wait for the computer to display the salt level. Use the up or down arrow to enter the closest level value that is indicated on the corresponding scale. Each level on the scale represents 50 pounds of salt. Once the desired salt level has been entered, the program/enter button must be pressed again for the computer to accept the new setting.

Salt Alarm (A)

This option allows you to set the salt alarm to your desired time. To set or change the salt alarm, press the program/enter button 2 times; the computer will display A. Use the up or down arrow to set the alarm time. To disable the alarm, use the up or down arrow to reach the 12 A.M. – 1 A.M. time; “OFF” will be displayed on the computer and the alarm will be disabled. Once the desired alarm time or disable request has been entered, the program/enter button must be pressed again for the computer to accept the new setting.

A low salt alarm will sound when the salt in the brine tank becomes lower than the desired level (30 lbs. or less). The alarm has been set to sound at 5 P.M., but you do have the option to change this setting. When the low salt alarm does go off, press the program/enter button and wait for the S to appear. After the salt level has been displayed, add salt and press the program/enter button.

How to Adjust the Hour of Regeneration (h)

To set or change the time of regeneration, press the program/enter button 3 times; the computer will display h. Use the up or down arrow to scroll through the A.M. and P.M. times, until the desired hour of regeneration is reached. Once the desired time of regeneration has been entered, the program/enter button must be pressed again for the computer to accept the new setting.

How to Adjust the Correct Time of Day (P)

To set or change the correct time of day, press the program/enter button 4 times; the computer will display P. Use the up or down arrow to scroll through the A.M. and P.M. times. Once the correct time of day is entered, the program/enter button must be pressed again for the computer to accept the new setting.

Helpful Tip: The scale for block salt is designated by levels 1 – 4. The scale for bag salt or potassium chloride is designated by levels 1 – 5. For larger tanks, a salt scale sticker is available through your RainSoft Dealer, part number 19024.

Potassium Chloride may be used as a substitute for salt.

Diagnostics

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
<th>How to Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>s</td>
<td>Salt Level</td>
<td>Press the program/enter button</td>
</tr>
<tr>
<td>A</td>
<td>Salt Alarm</td>
<td>2 times</td>
</tr>
<tr>
<td>h</td>
<td>Hour of Regeneration</td>
<td>3 times</td>
</tr>
<tr>
<td>P</td>
<td>Present Time of Day</td>
<td>4 times</td>
</tr>
</tbody>
</table>

Helpful Tip: The fast-scroll option is available during this function.
## Troubleshooting Guide

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The system fails to regenerate automatically</td>
<td>1. The power supply is plugged into intermittent or dead power source.</td>
<td>1. Connect to a constant power source.</td>
</tr>
<tr>
<td>2. The system regenerates at the wrong time</td>
<td>1. The computer is not set properly. 2. The time is off due to daylight savings.</td>
<td>1. Reset the time of day/hour of regeneration. 2. Reset the time of day.</td>
</tr>
<tr>
<td>3. Poor water quality</td>
<td>1. The raw water has changed. 2. The bypass valve is open. 3. The power supply is disconnected.</td>
<td>1. Call your RainSoft Dealer for a new water analysis. 2. Close the bypass valve. 3. Plug in the power supply.</td>
</tr>
<tr>
<td>4. Loss of water pressure</td>
<td>1. Low pressure to the unit.</td>
<td>1. Bypass the system. If the problem still exists after bypass, it is not related to a RainSoft product. Check your water distribution system. If the problem is resolved after bypass, call your RainSoft Dealer for service.</td>
</tr>
<tr>
<td>5. Excessive water in the brine tank and/or salty water</td>
<td>1. The drain line is plugged/restricted. 2. The brine valve is dirty. 3. Low inlet pressure. 4. The computer is not set properly. 5. The injector is plugged.</td>
<td>1. Check the water flow to the drain. Check for crimps in the drain line. Call your RainSoft Dealer for service. 2. Call your RainSoft Dealer for service. 3. Call your RainSoft Dealer to increase the inlet pressure. It must be a minimum of 20 psi. 4. Call your RainSoft Dealer to reset the settings. 5. Call your RainSoft Dealer for service.</td>
</tr>
<tr>
<td>6. The system fails to use salt</td>
<td>1. The drain line is plugged/restricted. 2. The injector is plugged. 3. Low inlet pressure. 4. No water in the brine tank.</td>
<td>1. Check the water flow to the drain. Check for crimps in the drain line. Call your RainSoft Dealer for service. 2. Call your RainSoft Dealer for service. 3. Call your RainSoft Dealer to increase the inlet pressure. It must be a minimum of 20 psi. 4. Call your RainSoft Dealer for service.</td>
</tr>
<tr>
<td>7. Constant flow to the drain</td>
<td>1. Foreign material in the valve.</td>
<td>1. Call your RainSoft Dealer to clean the valve.</td>
</tr>
</tbody>
</table>

If the troubleshooting guide did not resolve the symptom, please contact your local RainSoft Dealer for service. If you cannot locate your local RainSoft Dealer, please contact RainSoft Customer Service at 1-800-860-7638 or log onto www.rainsoft.com for the name and location of your nearest Dealer.
<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>17863</td>
<td>Composite valve body</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>17864</td>
<td>Spacer end</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>17865</td>
<td>Internal spacer</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>17866</td>
<td>Internal seal</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>18160</td>
<td>Retainer &amp; down flow piston</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>10258</td>
<td>O-ring - 017</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>17869</td>
<td>End plug assembly</td>
</tr>
<tr>
<td>8</td>
<td>5</td>
<td>17870</td>
<td>10-24 x .812 screw hex washer head</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>17871</td>
<td>Piston rod</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>17887</td>
<td>Retainer drain</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>17888</td>
<td>O-ring - 121</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td>17889</td>
<td>O-ring - 336</td>
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<tr>
<td>13</td>
<td>1</td>
<td>17617</td>
<td>Injector plug assembly</td>
</tr>
<tr>
<td>14</td>
<td>1</td>
<td>17948</td>
<td>Injector screen</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td>17949</td>
<td>Injector seal</td>
</tr>
<tr>
<td>16</td>
<td>1</td>
<td>17950</td>
<td>Injector cap</td>
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<tr>
<td>17</td>
<td>2</td>
<td>17951</td>
<td>Screw hex washer head 10-24 x 1.0</td>
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<tr>
<td>18</td>
<td>1</td>
<td>17958</td>
<td>O-ring - 015</td>
</tr>
<tr>
<td>19</td>
<td>1</td>
<td>17953</td>
<td>Retainer blfc button</td>
</tr>
<tr>
<td>20</td>
<td>1</td>
<td>17954</td>
<td>Flow control blfc 0.25 gpm</td>
</tr>
<tr>
<td>21</td>
<td>1</td>
<td>17957</td>
<td>Adapter blfc 0.25 gpm</td>
</tr>
<tr>
<td>22</td>
<td>1</td>
<td>17939</td>
<td>1/2 npt x 1/2 barb poly elbow</td>
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<tr>
<td>23</td>
<td>1</td>
<td>17557</td>
<td>Composite bypass valve</td>
</tr>
<tr>
<td>24A</td>
<td>1</td>
<td>17560</td>
<td>3/4” coupling adapter assembly</td>
</tr>
<tr>
<td>24B</td>
<td>1</td>
<td>17558</td>
<td>Turbine meter assembly with cable</td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td>17812</td>
<td>Refill shut-off assembly</td>
</tr>
<tr>
<td>26A</td>
<td>1</td>
<td>17893</td>
<td>#00 injector assembly</td>
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<tr>
<td>26B</td>
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<td>17947</td>
<td>#0 injector assembly</td>
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<tr>
<td>26C</td>
<td>1</td>
<td>18194</td>
<td>#1 injector assembly</td>
</tr>
<tr>
<td>26D</td>
<td>1</td>
<td>19318</td>
<td>#2 injector assembly</td>
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<td>26E</td>
<td>1</td>
<td>19393</td>
<td>#3 injector assembly</td>
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<td>27A</td>
<td>1</td>
<td>17991</td>
<td>1.5 drain line flow control assembly</td>
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<td>2.0 drain line flow control assembly</td>
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<td>3.0 drain line flow control assembly</td>
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<td>28</td>
<td>1</td>
<td>18445</td>
<td>Riser pipe retainer o-ring</td>
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<tr>
<td>29</td>
<td>1</td>
<td>18857</td>
<td>Check ball injector</td>
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<td>30</td>
<td>1</td>
<td>18855</td>
<td>Injector seat assembly</td>
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<td>31</td>
<td>2</td>
<td>13329</td>
<td>O-ring - 014</td>
</tr>
<tr>
<td>32A</td>
<td>1</td>
<td>17941</td>
<td>Diffuser upper basket 1 x .008 red</td>
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<tr>
<td>32B</td>
<td>1</td>
<td>18985</td>
<td>Diffuser upper basket 1 x .02 white</td>
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<tr>
<td>33</td>
<td>1</td>
<td>19328</td>
<td>Tank retainer seal</td>
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Control Exploded View
## Control Parts List

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>17487</td>
<td>Rear housing</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>17501</td>
<td>Brine cam gear</td>
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<td>1</td>
<td>17492</td>
<td>Brine cam gear bracket</td>
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<td>4</td>
<td>1</td>
<td>17537</td>
<td>Valve motor w/computer cam 24v 50/60 hz</td>
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<tr>
<td>5</td>
<td>2</td>
<td>17526</td>
<td>Switch 45 deg actuator gold contact</td>
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<td>6</td>
<td>2</td>
<td>17548</td>
<td>10-32 x 1.50 screw pan h phil ss</td>
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<tr>
<td>7</td>
<td>2</td>
<td>18135</td>
<td>4 x 1.25 screw slotted hex washer type 25</td>
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<td>8</td>
<td>5</td>
<td>17542</td>
<td>4-20 x .375 screw pan h phil ss</td>
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<td>9</td>
<td>1</td>
<td>17853</td>
<td>Front door housing gold</td>
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<tr>
<td>10</td>
<td>1</td>
<td>17855</td>
<td>Front housing gold</td>
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<td>11</td>
<td>1</td>
<td>17527</td>
<td>Gold 24v 50/60 hz pcb assembly</td>
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<tr>
<td>12</td>
<td>2</td>
<td>17542</td>
<td>4-20 x .375 screw pan h phil ss</td>
</tr>
<tr>
<td>13</td>
<td>1</td>
<td>17490</td>
<td>Rear housing cover</td>
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</table>
Limited
Lifetime Warranty
For as long as you own the equipment

RainSoft Division of AWTP, LLC, believing its

GOLD SERIES WATER TREATMENT SYSTEM

to be of exceptional quality, hereby warrants said equipment to its first purchaser at retail as follows:

THE TREATMENT TANK, VALVE AND SALT CONTAINER ARE WARRANTED AGAINST DEFECTS IN MANUFACTURE FOR THE LIFETIME OF THE FIRST PURCHASER AT RETAIL.

THE ELECTRICAL PARTS ARE WARRANTED AGAINST DEFECTS IN MANUFACTURE FOR FIVE YEARS AND PRO-RATA WARRANTED FOR AN ADDITIONAL FIVE YEARS.

RESINS:
ION-X 34 IS WARRANTED AGAINST DEFECTS IN MANUFACTURE FOR TEN YEARS.
ION-X 100 IS WARRANTED AGAINST DEFECTS IN MANUFACTURE FOR THE LIFETIME OF THE FIRST PURCHASER AT RETAIL.
ION-X 2000 IS WARRANTED AGAINST DEFECTS IN MANUFACTURE FOR THE LIFETIME OF THE FIRST PURCHASER AT RETAIL.

This warranty begins at the time the equipment is first connected for use, and is contingent upon the return of a signed owner’s registration card.

This warranty does not require replacement of the entire unit. If the equipment does not perform properly, you should request service from the dealer that sold you the equipment. If you are not satisfied, you should notify our Customer Service Manager. If we are not able to arrange local servicing, you should send the defective part(s) (or, if you prefer, send the entire unit,) directly to the manufacturer, freight prepaid, with proof of purchase and a copy of this warranty. The defective part(s) (or entire unit) will either be repaired or new RainSoft part(s) furnished, for a nominal charge to cover labor, handling, packing and the increase, if any, in the retail price of the part(s) since the date of purchase. Genuine RainSoft parts must be used. Failure to use genuine RainSoft parts will void the warranty and certifications.

This warranty does not include labor charges, and does not cover installation, transportation, or any other claims or torts. Some states do not allow the exclusion or limitation of incidental or consequential damages, so parts of the above limitation or exclusion 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. You also have implied warranty rights. In the event of a problem with warranty service or performance, you may be able to go to a small claims court, a State court, or a Federal District Court.

This warranty is void if equipment is not installed and operated according to instructions. It does not apply to damage caused by abuse, accident, neglect, freezing, fire, or other abnormal conditions beyond the company’s control. This warranty is void on any part from which the manufacturing date has been removed or made illegible.

Benefits will be provided by various types of RainSoft equipment when installed and operated according to the manufacturer’s recommendations. Operational, maintenance and replacement requirements are essential for the product to perform as advertised. All claims are based on the best available information at the time of printing. Manufacturer makes no representations as to the suitability of this equipment for a particular application. Buyer relies entirely on the dealer’s recommendations in the purchase of this equipment.

Independent RainSoft dealers may include, together with your RainSoft product, a product or component that is not manufactured by RainSoft or their parent company, AWTP, LLC. Any non-RainSoft product may be covered by the manufacturer of that product, and is not covered by the RainSoft warranty. AWTP, LLC does not warrant that your RainSoft product and the non-RainSoft product will perform properly when used together, and assume no liability therefore.
**Installer Specification Sheet**

Dealer Name: ________________________________  

Phone Number: ________________________________  

Installation Number: ____________________________  

Installation Date: ______________________________  

Model Number: ________________________________  

Serial Number: (See Label) ________________________  

Hardness: ________________________________  

Iron: ________________________________  

TDS: ________________________________  

Line Pressure: (psi) ________________________________  

Capacity of the Unit: (grains) ________________________________  

Tank Size: Diameter (inch) Height (inch) ________________________________  

Flow Control Size: (Circle)  1.5  2.0  3.0  (gpm) ________________________________  

Time of Regeneration: (Circle): A.M. P.M. ________________________________  

Starting Capacity Setting: (Circle)  33%  60%  70%  80% ________________________________  

Adjusted Brine Refill Time (1): (minimum) ________________________________  

Adjusted Brine Make-up Time (2): (minimum) ________________________________  

Adjusted Backwash Time (3): (minimum) ________________________________  

Adjusted Brine/Slow Rinse Time (4): (minimum) ________________________________  

Adjusted Fast Rinse Time (5): (minimum) ________________________________
AMAZON GOLD SERIES MODEL AQC 75 CV
DEMAND INITIATED TREATMENT SYSTEM

- SERVICE FLOW RATE = 9.3 GPM (35.2 LPM)
- DRAIN FLOW RATE: 1.5 GPM (5.7 LPM)
- PSI DROP @ FLOW RATE: 15.0 psi (1.1 kgf/cm²)
- OPERATING PSI OF SUPPLY: 20 psi - 120 psi (1.47 - 8.45 kgf/cm²)
- OPERATING TEMPERATURE: 40° F - 100° F (4.4° C - 38° C)
- ELECTRICAL: 24 VAC, 50/60 Hz (COMPUTER)
- SALT PER REGENERATION: VARIABLE
- EFFICIENCY: 4,470 GRAINS/LBS. SALT @ 3.0 LBS. DOSAGE

THE SYSTEM SHOULD BE INSTALLED IN AN AREA NOT AFFECTED BY EXTREME HEAT, COLD, OR THE ELEMENTS.

THIS SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS.

DO NOT INSTALL SYSTEM WHERE WATER IS MICROBIOLOGICALLY UNSAFE OR OF UNKNOWN QUALITY WITHOUT ADEQUATE DISINFECTION BEFORE OR AFTER THE SYSTEM.

THE SYSTEM CONTAINS AN ION-EXCHANGE MEDIA FOR REMOVING LISTED CONTAMINANTS AND MUST BE REGENERATED PERIODICALLY. PLEASE REFER TO THE OWNERS MANUAL TO DETERMINE THE FREQUENCY OF REGENERATIONS.

PLAIN, WHITE BLOCK SALT IS RECOMMENDED FOR THIS SYSTEM. IF BLOCK SALT IS NOT AVAILABLE, A CLEAN, COARSE OR EXTRA COARSE ROCK OR SOLAR SALT MAY BE USED. DO NOT USE GRANULATED SALT. CONSULT YOUR RAINSOFT DEALER FOR POTASSIUM CHLORIDE USE.

YOUR LOCAL DEALER IS AVAILABLE FOR SERVICE AND WARRANTY PART REPLACEMENTS.

WATER TREATMENT DEVICES SOLD TO RETAIL CONSUMERS IN CALIFORNIA ACCOMPANIED BY CERTAIN HEALTH CLAIMS MUST BE CERTIFIED BY THE STATES OF CALIFORNIA. THE AQC 75 CV IS NOT CERTIFIED IN CALIFORNIA FOR THE PURPOSE OF MAKING HEALTH CLAIMS.

TESTED AND CERTIFIED BY THE WQA TO NSF/ANSI STANDARD 44 FOR THE SPECIFIC PERFORMANCE CLAIMS AS VERIFIED AND SUBSTANTIATED BY TEST DATA

SEE THE OWNERS MANUAL FOR GENERAL OPERATION AND MAINTENANCE REQUIREMENTS.

SEE WARRANTY CARD FOR SPECIFIC WARRANTY INFORMATION.

IMPORTANT NOTICE
READ THIS PERFORMANCE DATA SHEET AND COMPARE THE CAPABILITIES OF THIS UNIT WITH YOUR ACTUAL WATER TREATMENT NEEDS. IT IS RECOMMENDED THAT BEFORE PURCHASING A WATER TREATMENT UNIT, YOU HAVE YOUR WATER SUPPLY TESTED TO DETERMINE YOUR ACTUAL WATER TREATMENT NEEDS.
AMAZON GOLD SERIES MODEL AQC 100 CV
DEMAND INITIATED TREATMENT SYSTEM

- SERVICE FLOW RATE = 10.0 GPM (37.8 LPM)
- DRAIN FLOW RATE: 2.0 GPM (7.6 LPM)
- PSI DROP @ FLOW RATE: 12.0 psi (0.9 kgf/cm²)
- OPERATING PSI OF SUPPLY: 20 psi - 120 psi (1.47 - 8.45 kgf/cm²)
- OPERATING TEMPERATURE: 40° F - 100° F (4.4° C - 38° C)
- ELECTRICAL: 24 VAC, 50/60 Hz (COMPUTER)
- SALT PER REGENERATION: VARIABLE
- EFFICIENCY: 4,970 GRAINS/LBS. SALT @ 3.0 LBS. DOSAGE

**CAPACITY AND SALT SETTINGS**

<table>
<thead>
<tr>
<th>CAPACITY</th>
<th>SALT</th>
</tr>
</thead>
<tbody>
<tr>
<td>14,900 GRAINS</td>
<td>@ 3.0 LBS. OF SALT</td>
</tr>
<tr>
<td>32,300 GRAINS</td>
<td>@ 10.0 LBS. OF SALT</td>
</tr>
<tr>
<td>37,700 GRAINS</td>
<td>@ 15.0 LBS. OF SALT</td>
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</tbody>
</table>

**SOFTENING PERFORMANCE TEST**

<table>
<thead>
<tr>
<th>CHALLENGE</th>
<th>AVERAGE INFLUENT LEVEL</th>
<th>AVERAGE EFFLUENT LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>HARDNESS</td>
<td>324 PPM</td>
<td>15 PPM</td>
</tr>
</tbody>
</table>

NSF/ANSI STANDARD 44 TEST CONDITIONS: 35 ± 5 psi, 60 ± 10°F, pH 7.5 ± 0.5 at service flow rate.

**ADDITIONAL NOTES**

- The list of substances which this treatment device reduces does not necessarily mean that these substances are present in your water supply.
- Actual results may vary due to local water conditions.
- An efficiency rated water softener is a demand initiated regeneration softener, which also complies with specific performance specifications intended to minimize the amount of regenerate brine and water used in its operation and will achieve a rating of not less than 3,350 grains per pound of sodium chloride salt and shall not deliver more salt than its listed rating. The efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency that the system can achieve. Operational efficiency is the actual efficiency achieved after the system has been installed and is typically less than the tested efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener’s capacity.
- A water softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before and after the system.
- Efficiency of the conditioner is valid only at the stated salt dosage.

**IMPORTANT NOTICE**

Read this performance data sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.
AMAZON GOLD SERIES MODEL AQC 100 CT
DEMAND INITIATED TREATMENT SYSTEM

- SERVICE FLOW RATE = 10.0 GPM (37.8 LPM)
- DRAIN FLOW RATE: 2.0 GPM (7.6 LPM)
- PSI DROP @ FLOW RATE: 13.0 psi (0.9 kgf/cm²)
- OPERATING PSI OF SUPPLY: 20 psi - 120 psi (1.47 - 8.45 kgf/cm²)
- OPERATING TEMPERATURE: 40° F - 100° F (4.4° C - 38° C)
- ELECTRICAL: 24 VAC, 50/60 Hz (COMPUTER)
- SALT PER REGENERATION: VARIABLE
- EFFICIENCY: 4,070 GRAINS/LBS. SALT @ 3.0 LBS. DOSAGE

THE SYSTEM SHOULD BE INSTALLED IN AN AREA NOT AFFECTED BY EXTREME HEAT, COLD, OR THE ELEMENTS.
THIS SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS.
DO NOT INSTALL SYSTEM WHERE WATER IS MICROBIOLOGICALLY UNSAFE OR OF UNKNOWN QUALITY WITHOUT ADEQUATE DISINFECTION BEFORE OR AFTER THE SYSTEM.

THE SYSTEM CONTAINS AN ION-EXCHANGE MEDIA FOR REMOVING LISTED CONTAMINANTS AND MUST BE REGENERATED PERIODICALLY. PLEASE REFER TO THE OWNERS MANUAL TO DETERMINE THE FREQUENCY OF REGENERATIONS.

PLAIN, WHITE BLOCK SALT IS RECOMMENDED FOR THIS SYSTEM. IF BLOCK SALT IS NOT AVAILABLE, A CLEAN, COARSE OR EXTRA COARSE ROCK OR SOLAR SALT MAY BE USED. DO NOT USE GRANULATED SALT. CONSULT YOUR RAINSOFT DEALER FOR POTASSIUM CHLORIDE USE.

YOUR LOCAL DEALER IS AVAILABLE FOR SERVICE AND WARRANTY PART REPLACEMENTS.

WATER TREATMENT DEVICES SOLD TO RETAIL CONSUMERS IN CALIFORNIA ACCOMPANIED BY CERTAIN HEALTH CLAIMS MUST BE CERTIFIED BY THE STATES OF CALIFORNIA. THE AQC 100 CT IS NOT CERTIFIED IN CALIFORNIA FOR THE PURPOSE OF MAKING HEALTH CLAIMS.

IMPORTANT NOTICE
READ THIS PERFORMANCE DATA SHEET AND COMPARE THE CAPABILITIES OF THIS UNIT WITH YOUR ACTUAL WATER TREATMENT NEEDS. IT IS RECOMMENDED THAT BEFORE PURCHASING A WATER TREATMENT UNIT, YOU HAVE YOUR WATER SUPPLY TESTED TO DETERMINE YOUR ACTUAL WATER TREATMENT NEEDS.