MODEL BHL-2100

INSTALLATION & OPERATION MANUAL
Congratulations!

You have just purchased one of the most essential and beneficial products for your health available today.

Our Alkazone Water Ionizer creates antioxidant ionized alkaline water from normal tap water. Although the Alkazone Water Ionizer performs first stage filtering and many people think of it as a great water filter, *the machine is not simply a water purifier. It is a highly sophisticated "Alkalizer" separating the water into acid and alkaline components.* Alkaline water promotes good health, while the acidic water has many household uses.

There are two important consideration required for years of trouble free operation of your new machine:

- *Source water ideally should be city or tap water.* For well water, water test must prove the suitability to the machine. Well water may cause the result that the pH is not raised to the optimum level.

- *Sediments or deposits content of the source water must be checked to determine if any pre-filtering System are required.* Tap water may contain excessive sediments due to over aged distribution lines.

Please follow the directions and other information in this booklet for proper installation and smooth operation of your Water Fountain.

Please fill out the Warranty information on the back of this booklet and keep your sales receipt so that your warranty can be validated.

*Please fill out and return enclosed Warranty Card to insure your warranty coverage.*
Before the Installation

CAUTION - Read this page before the installation.

- Be careful not to pinch or crush any of the hoses.
- Drain hose must drain freely. Do not use with drain hose raised.
- Keep away from direct sunlight, flames, heat, and high humidity.

- Place on a firm and level surface.
- Unit should be on same level as or higher than the sink.

Consult your physician if you are taking any prescription or non-prescription medication medications, or under supervision of doctor for any reason. If unusual or adverse physical symptoms develop, please consult with your physician.

Pull-out spout kitchen faucet cannot be used with this model.
Installation Diagram

- Ionized water
- Faucet Diverter
- Water Input Hose
- Acid Output Hose
- Hose Clamps
- Water Input from faucet
- Acid Output to the sink
**Installation Instructions**

**TOOLS NEEDED:**
- Pliers or wrench
- Scissors or sharp knife

**MACHINE INSTALLATION:**

1. Position the water Fountain on a firm and level surface or mount on the wall away from any extreme heat or direct sunlight or flame.

2. Install the diverter to the desire faucet
   (a). Remove the screw cap (aerator) from the current faucet.
   (b). Screw the diverter on the faucet carefully, then tighten with a pair of piers.

   You may need a matching adapter for mounting diverter on to the faucet.

3. Plastic Hose installation
   (a). Measure the length of hose from a faucet diverter to the Water Fountain. Make sure to leave enough room to account for the swinging movement of the faucet or possible future relocation of the system. Cut and prepare two pieces of hose with a sharp knife or scissors
   (b). Connect a hose to the Water Fountain Inlet and to the faucet diverter Outlet using clamps.
   (c). Connect the other hose to the Acid Outlet of the Water Fountain using a clamp and let it drain freely into your sink, or a container if you want to use the acid water.

4. Connect the flexible metal hose to Alkaline Water Exit on the top of the water Fountain.
   (a). Wet the end of the hose with water and firmly insert it while twisting the hose.

5. Plug in the power cord to a 120V electrical outlet.

6. Run the cold water through the Water Fountain for test operation and cleaning system.

7. Power will turn on and off automatically and be activated by water flow.

**IN CASE OF CHANGING HIGH PERFORMANCE FILTER**

1. Turn off water from faucet.

2. Remove the filter cover from the filter case by gently pushing up.

3. Turn the filter counter-clockwise and pull up to release from the base while holding the body with the other hand.

4. Mount the new filter to the base by simply reversing the step 3 above.

5. Push the red button to reset the counter.

6. Reinstall the filter cover to the filter case.
**FILTER LIFE:**
The digital readout shows the life of your filter. The filter should be changed either 9999 comes on the LED or every six months which comes first. (however, in certain geographical areas, where are extreme heavy sediments in your drinking water supply, your filter's life will be shortened; and you will need to replace your filter more often unless you install a pre-filter system to contain those sediments. (We can supply you with a pre-filter system)

**ION:**
Indicates Electrolysis in progress.

**POWER:**
Indicates power on and off.

**CLEANING:**
Music plays and light comes on when system is automatically cleaning itself.

**PH UP:**
Increases electrolysis, raises pH, lowers ORP.

**PH DOWN:**
Decreases electrolysis.

**PURIFY LAMP:**
Indicates that water is only being filtered, bypassing electrolysis.

**PURIFY ONLY:**
Turns on the ionization process using an on/off toggle switch.

**LEVEL:**
Indicates alkalinity from strongest (5) to lowest (1) level.

START USING LEVEL 1 FOR THE 1st WEEK AND GRADUALLY MOVE UP TO MEET YOUR NEEDS.
The adjustments 1-5 apply to the intensity of the electrolysis.

**Purify only:** No electrolysis

Level 1: Mild electrolysis

Level 5: Maximum electrolysis.

**Note:** By slowing down the flow rate you can further control the results, but for drinking water a pH of 9-9.5 seems the best.
1. Run cold water. Do not run hot water through the Alkazone System. Hot water will cause damage to unit.

2. Turn the diverter from a vertical to a horizontal position. This send the tap water to the machine.

3. For the first time only, run the water for 3-4 minutes. Start with level 1 for first week and work your way up (stronger) gradually. Some people are sensitive, and may experience a detox-like reaction, therefore we suggest slow adjustments.

4. **Purify Only** button switches off all electrolysis, or switches it back on. This is a bypass when you need filtered water just for washing vegetables, etc.

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**Operation & Water Fountain Diagram**

1. Power Light
2. Cleaning Light
3. Ionizer Light
4. Filter Life Indicator
5. pH Control Button (↑) -Up
6. pH Level Indicators
7. pH Control Button (↓) -Down
8. Filtering Indicator
9. Filtering Control Button
10. Alkaline Water Output (Flexible Hose)
11. Filter (mounted)
12. Body
13. Filter cover
14. Base
15. Stand
16. Calcium Chamber Cap
17. Calcium Chamber (Interior)
18. Filter Life Counter Reset Switch
19. Wall Hanging Holder
20. 120V 3A Fuse
21. Tap Water Inlet
22. Acid Water Outlet
Specifications

WATER FOUNTAIN

System description  Water electrolysis machine with built-in replaceable filter cartridge.
Model number       BHL-2100
Water Source        Municipal water supply
Power supply        AC 120V, 60Hz, 1A
Dimensions          11"W x 5.3"D x 14"H
Max. Water Temp     80 °F
Filter              Three stage, 1) mechanical to 1 micron,
                    2) Granular activated carbon,
                    3) Silver impregnated granular activated carbon (bacteriostatic).
Installation        Counter top (5.3" by 11" footprint), or wall mount.

HIGH PERFORMANCE FILTER

Calcium Chamber
Silver Coated Activated Carbon
Clinical Activated Carbon
PE Plane Separator
First Stage Filter

OPTIONS

Pre-filters - For variety of conditions: fluoride, lead sediment, etc.
Water testers
Principles of Operation

* General:

Your BHL-2100 Antioxidant Water Fountain is a sophisticated water electrolysis device, which first filters drinking water, and then subjects it to a partial electrolysis by exposing it to large electrodes. The electrodes are made of a platinum coated titanium.

* Filter:

The High Performance filter is an advanced filter cartridge, which offers mechanical filtration to 1 micron, followed by two stages of Granular Activated Carbon, the second stage being silver-impregnated to prevent bacterial growth inside the filter. The filter has a rated capacity of 1,000 gallons, which is reached when the display shows 9999.

* Pre-filter options:

In areas of heavy sediment, our very fine mechanical filter can become clogged prematurely, and the filter cartridge needs to be replaced faster. You should consider an additional form of sediment pre-filtration. We offer a pre-filter for Rust & Sediment, Chlorine, Parasite & Cysts, and Fluoride. You can consult with us and/or your BHL dealer about adequate pre-filtration.

* Acid/Alkaline Output:

The output from electrolysis is about 70% by volume alkaline water (the Cathodic water) and 30% acidic water (the Anodic water). In general, as a result of electrolysis, pH goes up and ORP (Oxidation Reduction Potential) goes down. From a theoretical standpoint, ORP is the key measure; and a negative ORP is indicative of the antioxidant properties of the alkaline water.

**Acid:** Along with lowering the pH, bleach is formed during electrolysis at the Anode, and also acidic Minerals from the feed water are concentrated on this side. The combination of the low pH and the bleach makes this water an effective cleaner. Great for spraying plants against fungi and bugs, or as water for cut flowers.

**Alkaline:** Along with raising the pH, alkaline minerals from the water are concentrated on this side. The range of the ORP of the alkaline water extends from 0 to -300, with typical values at the highest setting in the -100 to -200 range.

* Cleaning cycle:

During the automatic cleaning cycle the music plays first to alert you that self-cleaning is going to start. A few moments later the Cleaning light comes on to indicate that cleaning is in progress. At the end of the cycle, the cleaning light and the music stop and you can continue to take water from the machine. The cleaning cycle in fact reverses polarity of the electrodes, in order to prevent any scale build-up. Therefore, it is of great importance that the water is actually flowing during this time. DO NOT interrupt the cycle by turning the water off.
Trouble Shooting

Please check the following items before calling us for service. If you have any problem with your machine, every step of installation and operation must be checked first. Hooking up hoses in reverse, or failing to plug in the power happens often, but it is not a service issue. **Filter clogging and slower flow rate due to excessive sediments of your source water is not a service issue as well.** If there is still a problem, we will be glad to help you.

* Parts:
  A1 Flexible Steel Water Hose and a 1 Faucet Diverter Valve and its related parts are packed in the foam package. Please check the package before calling us for “missing parts”.

* Leaks:
  Check every external connection first. Check the both ends of water input hose those were properly connected to each terminal and well tightened by clamps. Check the filter cartridge that was seated and locked on to the filter base securely.

* Power:
  The machine should be plugged in at all times, and the power left on. The machine is activated automatically by the water flow. The diagnostic lights will tell you which functions are active, if you have power.

* Hoses:
  Hooking up the hoses in reverse will not damage the machine, but will result in strange malfunctions, such as water running and no lights coming on and no electrolysis taking place. Please hook them up the right way and see if that works. See diagram on page 6.

* Filter replacement:
  The High Performance Filter is normally rated at 1,000 gallons. If yours got clogged up prematurely, you’ll need to replace it. **However, Sediments or deposits content of the source water must be checked to determine if any Pre-filter System are required.**

* Overheating:
  After extended operation the machine shuts itself down to prevent overheating. Wait 30 minutes before running the machine again. Do not worry! The automatic shutdown prevents damage and this is normal.

* Water taste changes:
  Often, a change in taste is due to water standing still. Therefore it is recommended to run the water for a few seconds first.

* Music:
  This is not an abnormal function. Please see Cleaning Cycle in the Principles of Operation section.