



**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

NOTICE TO USER: This control product is to be used only as directed on this label. Read entire label along with installation and operation manual before use.



**Read the label and the installation and operation manual before using**

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**MADE IN NORTH AMERICA**

*Digital Version*



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Thank you for purchasing a Mineral Lion system. This device will assist in clarifying the water in residential swimming pools. Once the copper concentration has reached the required level of 0.2 – 0.4ppm, maintain 1ppm of free available chlorine. Regulated pools must follow provincial, state, or municipal guidelines.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>READ AND FOLLOW ALL INSTRUCTIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <ul style="list-style-type: none"><li>• <b>WARNING: To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.</b></li><li>• This unit is only water resistant when the mineral cell cable is plugged into the cell receptacle. Failure to do this may result in internal water damage.</li><li>• Use this equipment only for its intended use as described in this manual.</li><li>• This system should be serviced only by the manufacturer. Contact the manufacturer for examination, repair, or adjustment.</li><li>• Do not immerse cord or plug in water.</li><li>• Keep cord away from heated surfaces.</li><li>• Heavy bather loads may trigger the need for additional chlorine/bromine.</li><li>• Check the expiry date of the test kit as test results may be inaccurate if used after that date.</li><li>• Use a registered or scheduled pool sanitizer to maintain an appropriate chlorine/bromine residual in the water.</li><li>• The average life expectancy of the mineral cell is six months in a pool (2160 “on” hours)</li><li>• When replacing the mineral cell, use replacement cells having a label that clearly states that it is a replacement mineral cell for a mineral ion releasing device manufactured by ClearBlue Ionizer Inc.</li></ul> |

## Electrical Requirements

The retailer and manufacturer cannot accept any liability for damage to the equipment or personal injury resulting from failure to observe the correct electrical connection procedures.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>WARNING: Risk of Electric Shock. Connect only to a grounding type receptacle protected by a ground-fault circuit-interrupter</b></p> <p><b>WARNING: A ground-fault circuit-interrupter (GFCI) should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the unit without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this unit. Disconnect the unit and have the problem corrected by a qualified service representative before using.</b></p> <p><b>WARNING: To reduce the risk of electric shock, replace systems with a damaged cord immediately.</b></p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>SAVE THESE INSTRUCTIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Installation Instructions

The Mineral Lion system install requires three components that are included in the kit. You will also need a hacksaw, reciprocating saw or PVC pipe cutters, PVC primer and PVC glue that are not included.



System Controller



Clear PVC Tee



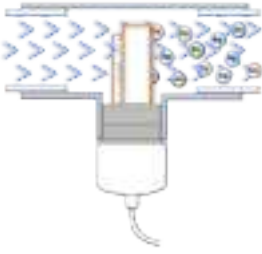
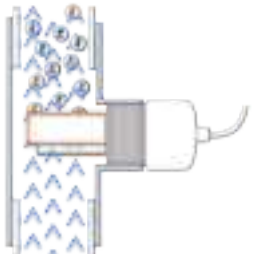
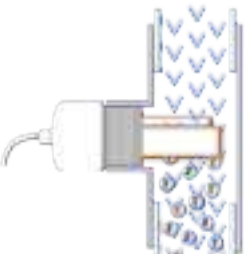
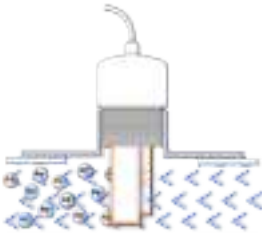
Mineral Cell

### Install the Tee

The tee is installed by gluing it into your pool PVC plumbing. The ideal spot for it is on the return line, after the pump, filter, and heater (if applicable). If you have a salt or inline chlorinator installed, the tee should go *before* the chlorinator. If you do not have space on the return line for the tee, it can go anywhere in the plumbing that it fits.



**The tee should be oriented such that it looks like a capital T if possible. If it is not possible to install in this manner, it can be installed in any orientation other than an upside-down capital T.**

|                                                                                                 |                                                                                               |                                                                                               |                                                                                                    |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|              |            |           |               |
|  <b>BEST</b> |  <b>OK</b> |  <b>OK</b> |  <b>WRONG</b> |

### Cut plumbing and glue in the tee

- 1) Turn off the pool pump and let the water drain out of the pipe
- 2) Cut a 2.5" (63mm) section out of the PVC plumbing using a saw or PVC pipe cutters
- 3) Remove any dust and burrs from the pipe
- 4) Apply PVC primer and glue both to the outside of the pipe and the inside of the tee
- 5) Slide the tee over the pipe on one side as far as it will go and then the other side
- 6) For each glue joint, hold the tee in place for 30 seconds
- 7) Let the glue dry for 24 hours before turning on the pump

### Install the Mineral Cell

Once the PVC glue has dried, you can install the Mineral Cell by threading it into the tee. **Teflon tape is not needed.** Tighten the cell until it is hand tight. Orient the bars such that the water will flow between the two bars (or as close as possible with no leaking). Once the controller is mounted, you will plug the cell into the controller.

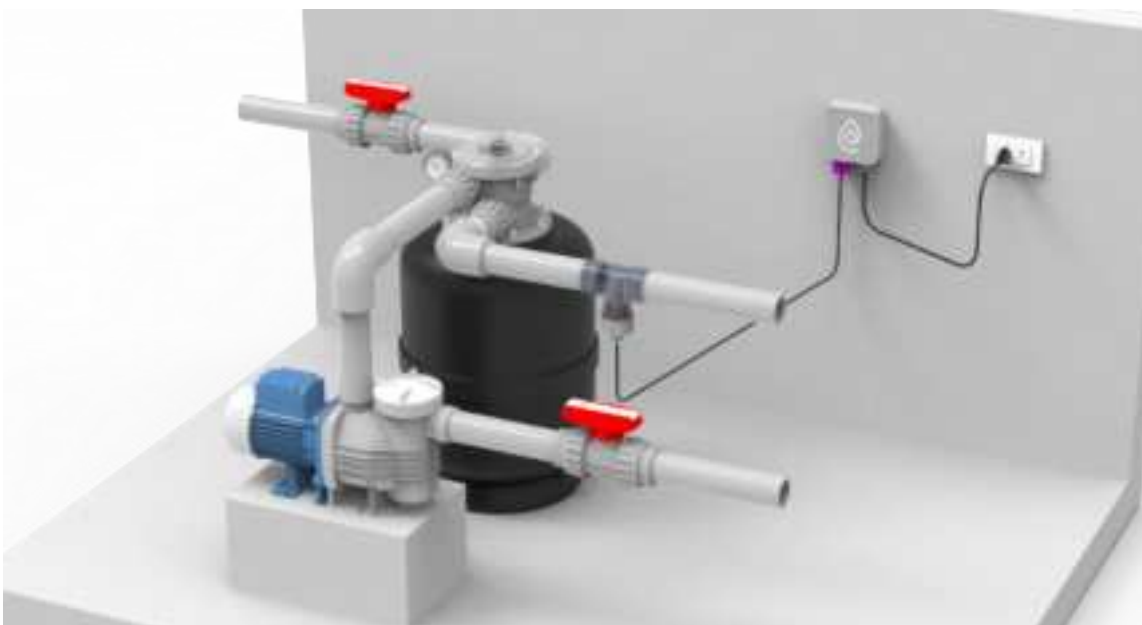


**Unplug or turn off the power to the controller before plugging in or unplugging the cell. Otherwise, you could damage the control board.**

### Install the System Controller

The system controller can be mounted on a wall, wood post, the side of the filter, or anywhere else that it can be fastened with screws or Velcro tape. Make sure that the power cable for the controller reaches the power source and the cable from the cell reaches the controller. The controller is rated for outdoor use, but it should be protected from rain and out of the direct sunlight for longest life. Placing the controller in a hut or weatherproof enclosure is recommended.

If you are hard wiring the controller into a 240V panel, you can have an electrician clip off the plug and wire it per local electrical code. Once you have mounted the controller, you can plug the mineral cell into the receptacle on the bottom of the controller.



Check out this installation video for pools: <https://youtu.be/SGAK0yD6630>



The same controller can be plugged into a 120V wall outlet or wired to a 240V panel.



**Make sure that the power cable for the controller reaches the power source and the cable from the cell reaches the controller.**



When the cell cable is plugged into the controller and the housing is completely threaded into the tee with the two electrode bars under water, the *Mineral Action* light will illuminate or flash blue. If the *Mineral Action* light is flashing red, make sure that the cell is plugged in all the way and the two electrode bars are completely under water.



If your controller has a standard wall plug, it must be plugged into a GFCI protected outlet.

## System Controller Configuration



The number setting in the middle of the panel represents a percentage of the maximum output level. For example, a setting of 88 means the controller is outputting minerals at 88% of maximum output. Use the  $\nabla$  and  $\wedge$  keys to increase or decrease the number and reach the desired setting. When the system is set up correctly and ionizing the water, the *Mineral Action* light will be solid blue.

## Increasing the Minerals

When you first fill or refill your pool, you will need to increase the mineral level to a range of 0.2ppm to 0.4ppm. To increase the mineral level in the water, set the number setting to 99. Test the water with the included copper test kit every two days until the level reaches at least 0.2ppm.

## Maintaining the Minerals

Once the mineral level has reached at least 0.2ppm, you can turn the number down to maintain the minerals at this level. The number you set it to depends on your pool size and the suggested value can be calculated using the tables below.



Use the calculations below to calculate the number setting based on your model and pool volume.

|                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                               |
| It is important to balance the water according to the table on page 10 before ramping up the minerals.                                                                                         |
|                                                                                                               |
| The setting calculations are guidelines only. You must use a copper test and increase or decrease the number setting as required to ensure the copper level is maintained at 0.2ppm to 0.4ppm. |
|                                                                                                               |
| <b>DO NOT REDUCE CHLORINE/BROMINE CONCENTRATION UNTIL COPPER LEVEL REACHES 0.2PPM</b>                                                                                                          |

## Calculating Pool Volume

The Mineral Lion controller settings are based on the volume of water in your pool. Please use the calculations below to determine your water volume.

| Pool Type              | Calculation (Using Feet & Gallons)                                   | Example                                                                                                    |
|------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Rectangle</b>       | Length x Width x Avg. Depth x 7.5 = Volume (gal)                     | <b>16 ft x 32 ft x 4 ft deep, 8 ft deep end</b><br>$16 \times 32 \times 6 \times 7.5 = 23,040$ gal         |
| <b>Circle</b>          | Diameter x Diameter x Avg Depth x 5.9 = Volume (gal)                 | <b>24ft round pool x 4ft deep</b><br>$24 \times 24 \times 4 \times 5.9 = 13,594$ gal                       |
| <b>Oval</b>            | Long Dia. x Short Dia. x Avg Depth x 5.5 = Volume (gal)              | <b>18ft x 33ft oval pool x 4ft deep</b><br>$33 \times 18 \times 4 \times 5.5 = 13,068$ gal                 |
| <b>Irregular Shape</b> | Length x (Width 1 + Width 2) x 0.45 x Avg Depth x 7.5 = Volume (gal) | <b>16 ft long 5 ft deep kidney pool</b><br>$16 \times (8 + 10) \times 0.45 \times 5 \times 7.5 = 4860$ gal |
| <b>Average Depth</b>   | $\frac{\text{Deep End Depth} + \text{Shallow End Depth}}{2}$         | <b>4ft deep pool with 8ft deep end</b><br>$\frac{8 + 4}{2} = 6$                                            |
| <b>Meters to Feet</b>  | Length in Meters x 3.281 = Length in Feet                            | <b>10 meter long pool in feet</b><br>$10 \times 3.281 = 32.81$ ft                                          |

## Number Setting Calculation from Gallons

The model number is on the back of the controller.

| Model                                | Setting Calculation (Maintain and Increase)                                 | Example                                                                |
|--------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>CBI-350B-25</b><br>25,000 gal max | $\frac{\text{My Pool Volume in Gallons}}{25,000 \text{ Gallons}} \times 50$ | $\frac{15,000 \text{ Gallons}}{25,000 \text{ Gallons}} \times 50 = 30$ |
| <b>CBI-350B-40</b><br>40,000 gal max | $\frac{\text{My Pool Volume in Gallons}}{40,000 \text{ Gallons}} \times 50$ | $\frac{31,000 \text{ Gallons}}{40,000 \text{ Gallons}} \times 50 = 39$ |



Scan this QR code to access the online settings calculator:

<https://www.clearblueionizer.com/en/controller-settings/>



## Number Setting Calculation from Liters

The model number is on the back of the controller.

| Model                               | Setting Calculation (Maintain and Increase)                                | Example                                                                |
|-------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>CBI-350B-25</b><br>94,650 L max  | $\frac{\text{My Pool Volume in Litres}}{94,650 \text{ Litres}} \times 50$  | $\frac{56,780 \text{ Litres}}{94,650 \text{ Litres}} \times 50 = 30$   |
| <b>CBI-350B-40</b><br>151,400 L max | $\frac{\text{My Pool Volume in Litres}}{151,400 \text{ Litres}} \times 50$ | $\frac{117,350 \text{ Litres}}{151,400 \text{ Litres}} \times 50 = 39$ |

## Program Lock (PL)

The Program Lock feature allows you to lock the controls so that they are not inadvertently changed. To activate the Program Lock, press and hold the  $\vee$  and  $\wedge$  keys simultaneously for 20 seconds or until 'PL' is shown on the two-digit number screen. Do the same to remove the Program Lock.

## High Power Mode (Decimal on Number Screen)

If the cell is almost used up or the total dissolved solids (TDS) level of the water is low, the controller will go into High Power Mode which is indicated by a decimal on the screen. If the system switches into High Power Mode, it is recommended to check the cell and test the TDS. Increase TDS if needed according to the levels given on page 10.



**High Power Mode may be activated when the mineral cell is low. If the decimal appears but the TDS is in range, check the cell. If the bars are worn down to 0.5" (10mm) or below it is time to change it.**

## Replacing the Mineral Cell

The mineral cell will last 3 – 12 months depending on the volume of water, the temperature of the water, the amount and intensity of sun reaching the water, and usage. The first cell will always wear down faster because it is used up quicker to ramp up the minerals.



**Unplug or turn off the power to the controller before plugging in or unplugging the cell. Otherwise, you could damage the control board.**

It is important to check the cell regularly and make sure there is still some material left on the bars. If the bars are worn down to 0.5" (10mm) in length or below, it is time to change the cell. When the cell is completely used up, the *Mineral Action* light will flash red.



**It is recommended to change the cell before the start of the pool season or at least every 6 months.**



**To maximize the life of the mineral cell:**

- 1) Keep the copper level at 0.2ppm
- 2) Cover the pool when it is not in use
- 3) Keep the chlorine/bromine level around 1ppm
- 4) Use a chlorine or non-chlorine shock once per week
- 5) Keep phosphates low



**If the mineral cell life is less than 3 months or you are having trouble reaching 0.2ppm copper, make sure that the phosphate level of the water is below 200ppb. Your pool water can be tested for phosphates at your local pool store. There are several products available that will reduce the phosphate level in your pool.**



**It is important to change the cell before it is completely used up. This is to ensure that the mineral levels do not drop off which can lead to green water. Green water is unsafe and requires expensive treatments to clear. Change the cell when the bars are worn to 0.5" (10mm) in length or below.**

## Pool and Water Maintenance



**For the best results from your mineral pool, it is important to start with clean water, keep water parameters in range, maintain a low chlorine/bromine residual and oxidize excess organic material on a regular basis.**

### Opening your Pool

When you open your mineral pool, you can follow the instructions of your pool builder or pool store. They may recommend an opening kit with products designed to condition the water and get you swimming as quickly as possible.

Opening kits sometimes use a 'stain and scale remover' or other type of sequestering agent. We do not recommend using this type of product because it will remove the minerals and neutralize new mineral production for up to 6 weeks.

If your mineral cell is more than six months old, it should be replaced when you open your pool.

### Filling your Pool

We recommend using a pre-filter that attaches to your garden hose when filling your pool. The pre-filter removes unwanted metals and sediment from the water, so the water is as pure as possible for your use. If you live in a rural area and are filling from a well, this is even more important.



**Metal removers, sequestering agents and some stain removers conflict with this system. If one of these products is used, it will remove the minerals and neutralize minerals for up to 6 weeks. Unplug or power off the controller for at least 4 weeks after using these products to prevent unnecessary wear to the cell.**

### Water Parameters

For the best results, maintain the water parameters in the following ranges.



**Apart from the copper and low level of chlorine, the water parameters below are standard for any pool**



**It is important to balance the water according to the table below before ramping up the minerals.**

| Parameter                  | Range          | Notes                                                                                                               |
|----------------------------|----------------|---------------------------------------------------------------------------------------------------------------------|
| Copper                     | 0.2 – 0.4ppm   | Once 0.2ppm is reached, test for copper every two weeks                                                             |
| pH                         | 7.2 – 7.6      | pH out of range will cause the water to feel harsh                                                                  |
| Alkalinity                 | 80 – 120ppm    |                                                                                                                     |
| Calcium                    | 200 – 400ppm   | Calcium below 200ppm will cause etching to pool surfaces and equipment; Calcium above 400ppm can lead to scaling    |
| TDS                        | 500 – 2,000ppm | Low salt systems are recommended for saltwater pools                                                                |
| Phosphates                 | <100ppb        | It is critical to keep phosphates low to maximize the life of the mineral cells and minimize chlorine/bromine usage |
| Chlorine                   | 1ppm           | Chlorine should be 2 – 3ppm until copper reaches 0.2ppm                                                             |
| Cyanuric Acid (Stabilizer) | 30 – 50ppm     | If your stabilizer is above 50ppm, use unstabilized chlorine                                                        |

### Regular Water Maintenance

For your pool water to look, feel and smell the best, it is important to maintain a low level of chlorine or bromine and oxidize regularly.



**We recommend using one 3” chlorine or bromine tablet per week and oxidizing with a chlorine or non-chlorine shock once per week.**



**Adding an inline chlorine reservoir to your filtration system is a low-cost way to minimize the chlorine maintenance. Simply fill the reservoir with chlorine or bromine tablets and set the setting to 25% of maximum. Check weekly to make sure there are still tablets inside.**



**Using a non-chlorine shock once per week is a fast and easy way to keep lotions, sunscreens, and organic material from building up in the water.**

### Closing the Pool

When closing your pool, you can follow the closing instructions from your pool store or pool service. If they recommend a closing kit, take note if there is a stain and scale or other sequestering product used as part of the closing. You will find that the water is cleaner and clearer in the Spring when you open the pool.

We recommend bringing the system controller indoors for the winter. If there is still life left on the cell, you can leave it in the tee, but you must wrap up the plug end so that the winter weather does not corrode it.

## Cleaning and Care

### System Controller

Clean the controller with a soft cloth dampened with water as needed. Do not use any type of cleaner on the front control panel or plastic housing.

### Mineral Cell

If your water is high in calcium, the electrode bars on the mineral cell may become coated with a white or blue scale. Check the cell every 6 months and remove the scale with a standard metal file. The surface of the bars does not have to be polished.



**If the bars are too scaled up for the system to release minerals, the *Mineral Action* light on the controller will flash red.**

## Troubleshooting

| Problem                                         | Possible Cause                                   | Solution                                                                                                                                                                                                                                          |
|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The <i>Mineral Action</i> light is flashing red | The cell is not plugged in all the way           | Make sure the cell cable is completely plugged into the controller                                                                                                                                                                                |
|                                                 | The electrodes are not under water               | Make sure the electrode bars are completely under water. An air pocket can form when the pump is not running, and the tee is installed upside down.                                                                                               |
|                                                 | The cell is worn down past its useful life       | Change the mineral cell                                                                                                                                                                                                                           |
|                                                 | There is scale on the electrodes                 | File the scale off the electrodes with a metal file                                                                                                                                                                                               |
| I cannot get my copper level to reach 0.2ppm    | You have not set the controller to 99            | Set the controller to 99. After 4, test the copper level. If your copper level is below 0.2ppm, keep the controller on 99. Repeat until 0.2ppm copper is reached                                                                                  |
|                                                 | The number setting is too low                    | If you find that the copper level reaches 0.2ppm but then drops off, set your <i>Maintain</i> setting higher to compensate                                                                                                                        |
|                                                 | There is not enough chlorine in the water        | The chlorine or bromine should be maintained at 1-3ppm until the copper level reaches 0.2ppm. Once the copper level reaches 0.2ppm, you can reduce the chlorine/bromine concentration to 1ppm                                                     |
|                                                 | The mineral cell needs to be changed             | Check the electrode bars on the mineral cell. If they are 0.5" (10mm) or shorter, it is time to change the cell                                                                                                                                   |
|                                                 | The phosphate level in the water is too high     | Have your water tested for phosphates at a pool store. If the phosphate level is above 200ppb, use products recommended at the store to bring it down. If you live in a rural area, you may need to reduce the phosphate level on a regular basis |
|                                                 | The test kit is expired                          | Check the expiry date on the test kit and purchase a new one if it is expired                                                                                                                                                                     |
|                                                 | The test kit instructions are not being followed | Be sure to read the test kit instructions and follow them exactly                                                                                                                                                                                 |
| There is no power to the controller             | The power outlet is dead                         | Check the power to the outlet by plugging in another appliance                                                                                                                                                                                    |

| Problem                                                           | Possible Cause                                       | Solution                                                                                                          |
|-------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|                                                                   | The controller is dead                               | Test the controller in another outlet that you know works. If there is still no power, see Warranty section below |
| The controller display shows 'PL' and I can't change the settings | The controller is set to Program Lock                | Press and hold the ∨ and ^ buttons simultaneously for 20 seconds or until the PL changes back to a number         |
| There is a decimal place showing on the display after the numbers | The Total Dissolved Solids (TDS) of the water is low | Increase the TDS to the range recommended above                                                                   |
|                                                                   | The cell is scaled up or almost worn out             | Clean off scale with a metal file or change the mineral cell                                                      |

## Specifications

| Spec                             | Value                                         |
|----------------------------------|-----------------------------------------------|
| Input Voltage                    | 100 – 240 Volts AC                            |
| Input Frequency                  | 50 to 60 Hertz                                |
| Output Voltage                   | 38 VDC Max                                    |
| Output Current                   | 0.20 AMP Max                                  |
| Controller Outside Dimensions    | 120mm x 121mm x 37mm / 4 ¾" x 4 ¾" x 1 ¾"     |
| Shipping Weight for Complete Kit | 3.6 lbs / 1.6 kg                              |
| Shipping Size for Complete Kit   | 7" x 7" x 7" / 178mm x 178mm x 178mm          |
| Mineral Cell Life                | Average 6 months in a pool (2,160 "on" hours) |

## Warranty

The Mineral Lion system controller is covered by a 1-year warranty. The mineral cells are designed to wear down and they do not have a warranty, however, they will be replaced free of charge if there is an obvious defect.

To make a warranty claim, send an email to [support@clearblueionizer.com](mailto:support@clearblueionizer.com) with the following information:

- 1) Photo of the serial number and model information on the back of the controller
- 2) Mailing address
- 3) Phone number

If a terminal problem is diagnosed, a replacement controller will be shipped within 14 days.

## Contact

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