

Almost Heaven Group HC 67 Box 539 BB Renick WV 24966

Telephone: 304-497-2610

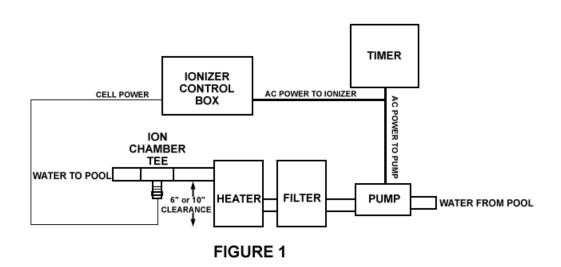
E-mail: sales@almostheaven.net Web Site: www.almostheaven.net

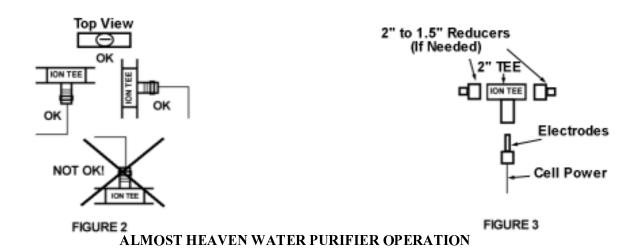
Saunas, Steamrooms, and Swimming Pool, Spa & Hot Tub Equipment

ALMOST HEAVEN WATER PURIFIER - SWIMMING POOL MODELS INSTALLATION & OPERATION INSTRUCTIONS

The electronic Almost Heaven Water Purifier System can eliminate the need for using chlorine or bromine in residential pools, thus avoiding the inconvenience, odor and hazards of halogen sanitizers. Before installing the Almost Heaven Water Purifier, the pool and its filter should be clean, free of algae, pH balanced and oxidized. Always add an adequate amount of shocking agent and our Instant Ions after every fresh fill (see Operation Instructions).

- 1. Turn off the power to the equipment. NOTE: The sanitizing ions have been known to stain certain newly applied plaster pool finishes, so a newly finished plaster pool should be permitted to cure completely before the ionizer is connected.
- Install the electrode TEE into your plumbing system. It is ideal to install the TEE after the filter and as close to the pool as possible, but if this is not possible, it is still suitable to install the TEE before the filter. See FIGURE 1. NOTE: Units provided for pools greater than 50,000 gallons will have two or more electrode cells, and each should be plumbed and wired as specified.
- 3. The electrode cell(s) must be at the bottom or side of the TEE, so that no air will be trapped in the cell(s). See **FIGURE 2**. Make sure there is clearance to remove the electrodes before installing the TEE (6" for the electrodes for pools up to 25,000 gallons, 10" for electrodes on the larger units). If you have 1.5" pipe, you will use reducers, but if you have 2" pipe, you can glue the TEE in directly. See **FIGURE 3**. Cut out a 2.75" section of pipe where the electrode cell(s) will be installed (or cut a 3.5" section if using the reducers for 1.5" pipe). Glue the TEE in place using PVC glue. The black line on the cell must always be inline with the water flow. If you are not sure how to install the cell you should have a pool contractor do it. **NOTE: If you are gluing your TEE into flexible PVC, DO NOT USE PRIMER to prepare the joint.** Flexhose is softer than rigid PVC and the aggressive primer will eat through it. Instead, use a **CLEANER** designed for flex.
- 4. Mount the controller on a wall or vertical surface where the cell power cord(s) will reach the cell(s). It is best to install the controller where it is protected from the sun and weather. Remove the four screws in the face of the control box, which will reveal four internal sleeves for the mounting screws. Drop the four #8 x 3/4" mounting screws provided into these sleeves. Slide a screwdriver into each sleeve to fasten the controller to a wall or the spa cabinet so that the cell power cord will reach the cell. Please note that if the cell power cord must pass through a small hole in a wall, it will have to be disconnected and reconnected inside the controller, which is easy enough to do. Please contact Almost Heaven for further details.
- 5. The ionizer control box should be spliced into the AC power to the pump so it is on only when the pump is running. See **FIGURE 1**. It is auto sensing and can be connected to either 120 or 240 volts AC. Use the plug on the end of the power cord if you have a 120 Volt receptacle that is powered with the pump. Otherwise, remove the plug to connect the AC power. If you cut the plug off the power cord, the AC power is connected to the power cord as follows: the black wire is the hot wire; the white wire is the neutral wire if 120 volt, or the other hot if 240 volt; the green wire is the ground. A licensed electrician should perform the wiring if you are not sure how to wire the AC power.





Mostly all of our ionizer competitors recommend that you shock your pool with chlorine weekly, but most of our customers want to avoid the hazards and odors of chlorine, so we recommend that you purchase some potassium peroxymonosulfate at your local pool and spa store to use as a weekly shock. It's available under a wide variety of trade names (perhaps with a slightly different chemical name), is faster acting and won't offend your nose and skin like the chlorine. We believe it's also gentler on your electrodes, too. Always begin by shocking a fresh fill according to the chemical manufacturer instructions. NOTE: If your pool is uncovered and **subject to periods of extended and extreme rainfall**, as with any other method of water treatment, the ionizer may become overtaxed. In such cases, it may be appropriate to use chlorine instead for the weekly oxidizing shock, and you may also want to add some non-copper based algaecide as well.

- 1. Turn on the pool pump. Test the pool water and make sure the water is properly balanced and shocked. Test the pool water with the copper test kit to see if there is copper already present in the pool. If copper is already present it may be from a copper based algaecide or from a previous pH problem. WARNING: If your pool has been using Bacquacil or any similar sanitizer, either drain and refill it, or at least make sure your pool water has been properly changed back to a chlorine pool before proceeding. NOTE: The sanitizing ions have been known to stain certain newly applied pool finishes, so a newly finished pool should be permitted to cure completely before the ionizer is connected.
- 2. Add the Instant Ions to your pool according to the directions on the label. Do not add Instant Ions until the pool water is shocked and balanced so that it is not used up.
- 3. Turn the controller output to MAX. Switch the power to ON. The power light and the cell power light should come on. The cell power light will change color from green to red every few minutes to indicate the cleaning circuit is operating properly. The cell power light is on when the cell has power. Turning the control down decreases the percentage of time the cell has power from 100 to 0%. The service light will come on if the electrodes need to be replaced, if the water is fresh and the output current is too low, or if there is a problem with the system. If the water is new and fresh and the service light comes on, you will need to add 20 pounds of salt to your water per 10,000 gallons. If the service light should come on after being in service for some time, check the electrodes for wear.
- 4. Turn the pump timer off and make sure the controller power turns off also. Turn the pump timer back on and make sure the controller power is on. Now you can stop using halogen sanitizers! All you need to do is shock your pool with the shocking agent (or chlorine) about once a week, or any time the water begins to cloud.
- 5. Test the ion level at least once per week until you have found the proper setting for your pool. Now you should only need to test the ion level once or twice a month because the ion level does not dissipate like other sanitizers.

Do not over ionize your pool. When the copper level reaches 0.3 ppm turn the control down and adjust as necessary to maintain 0.3 ppm. You will automatically have the proper levels of silver and zinc if your copper level is correct. If the copper level reaches 0.5 ppm turn the Ionizer off until the level drops to 0.3 ppm. If algae are ever present shock the pool until all algae are gone and/or add a non-copper based algaecide on a regular basis. At least once a year remove the ion cell, clean the electrodes with a stiff brush and inspect them for wear. Always ensure that the electrodes are installed so that the black line is in line with the water flow.

When operating in the winter in mild climates, or in spring or fall in cold climates, when the water is cooler than normal, you will need to set the output control to a lower setting to maintain 0.3 ppm copper. Continue to maintain pool chemistry until your water temperature drops to 60 degrees. Do not operate below 50 degrees F or 10 degrees C. If you're in a freezing climate, and you winterize your pool water and pool equipment, turn the power switch to off on the controller, when you turn off power to the pool equipment. Remove the cell from the tee fitting and drain all water from the cell. Clean electrodes if needed. Replace the cell leaving the nut just loose enough to allow water to leak out if it gets in the cell. Tighten cell before operating pool equipment.

Keep these instructions in a safe place.

DO NOT USE A STAIN & SCALE PREVENTER in your pool if you are using the Water Purifier. Stain & Scale Preventer is only ever needed if you have water from a well with high concentrations of metal, lime, etc. Although Stain & Scale Preventer is designed to sequester ions of iron and calcium, it will also do so to the copper, zinc and silver. If you have a serious staining and scaling problem, it should be treated at the point where the water enters the home so as to protect all the other plumbing and fixtures in the house.