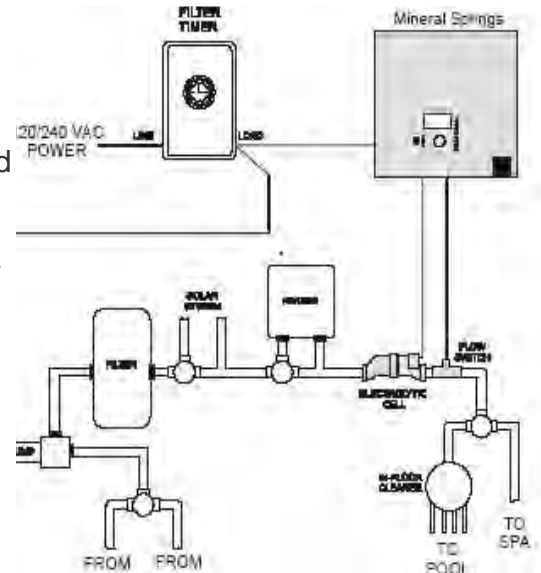




MINERAL SPRINGS® By BioGuard

The Mineral Springs system utilizes easy-to-apply minerals and an automatic device to produce a chlorine sanitizer. This state of the art technology requires only 10 minutes of your time. Maintaining the pH of your pool is the most important thing you can do to preserve the life of your liner and heater. Mineral Springs easy to operate control box helps ensure the proper water balance.

Essential elements pass through the Mineral Springs cell to produce sanitizer. The minerals are converted into free chlorine that kills bacteria and algae in the pool. A temperature sensor and mineral level sensor are built into the electrolytic cell. The cell, along with the flow detector, are plumbed into the pool return line piping. The flow switch / detector informs the controller that water is flowing and that the generation process can start. The temperature and mineral level sensors keep the Mineral Springs controller calibrated regardless of pool temperature. The Mineral Springs Unit (Controller and Cell) utilize Beginnings and Renewal® products to produce a chlorine sanitizer.



Beginnings®



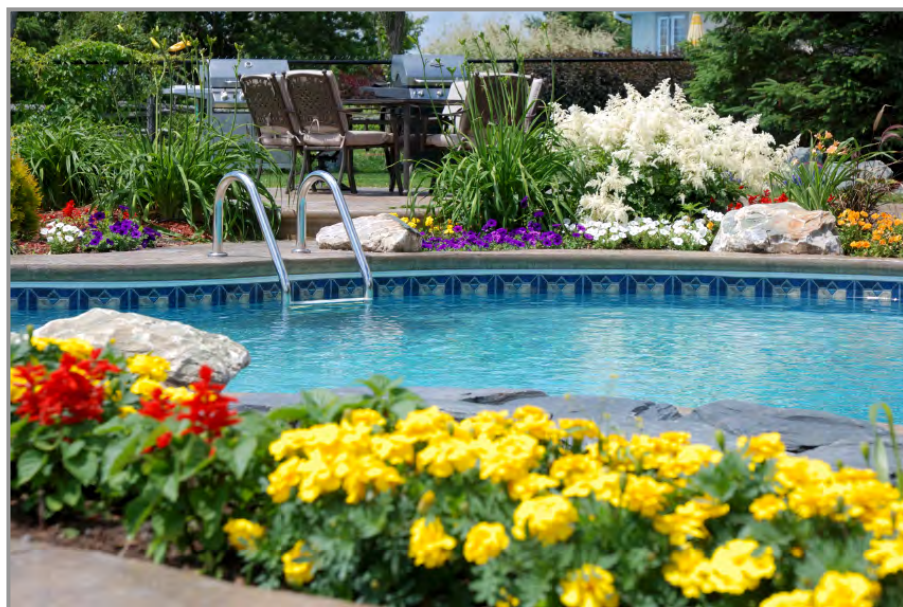
A proprietary blend of minerals added to pool water at start-up. You should maintain the level of Beginnings at 2,500-3,200 ppm. Mineral Springs will operate properly with levels up to 3,500 ppm. Beginnings is added only at initial and spring start-ups; however, in cases of large amounts of water loss that may cause the low mineral light to come on, it may be necessary to add Beginnings.

Apply one bag per 1,000 gallons of pool water at start-up or as needed to obtain proper mineral levels.

Renewal® Helps to replenish mineral levels, keeping water soft and clear. Renewal® contains pH balancers and adjusters to offset pH drift including chelators and scale inhibitors. This helps prolong the life span of the Mineral Springs electrolytic cell. Renewal also contains a filter aid and helps in maintaining crystal clear water.



Apply one bag per 20,000 gallons weekly to replenish mineral levels.



Mineral Springs Initial Start-Up for newly filled pools

- Have your water professionally tested and follow any recommendations for balance or treatment of minerals or metals.
- Pool water should be balanced; Total alkalinity 80-120 ppm, Calcium Hardness 250-300 ppm, and pH between 7.4-7.8. See Basic Water Chemistry for more details.
- Add Mineral Springs Beginnings™, according to label directions, at a rate of one bag per 1,000 gallons of water.
- Add Stabilizer 100™ by broadcasting over the surface of the pool at a rate of 1 lb. per 3,000 gallons to increase the stabilizer level by 40 ppm. Keep the water circulating continuously for 24 hours and do not backwash filter for 48 hours.
- Turn the Mineral Springs Controller to the Auto Position to begin generating sanitizer (chlorine) Adjust "Sanitizer Output Control" to the desired setting.
- One week from start-up begin adding Mineral Springs Renewal™ weekly according to label directions.



Mineral Springs Seasonal Start-Up for existing pools

- Backwash and chemically clean the filter with BioGuard Strip Kwik & Kleen-It as per label directions.
- Have your water professionally tested and follow any recommendations for balance, minerals or metals, Beginnings and cyanuric acid (Stabilizer 100). DO NOT add Stabilizer 100 or Beginnings without first establishing the existing level in your water.
- Pool water should be balanced; Total alkalinity 80-120 ppm, Calcium Hardness 200-350 ppm, and pH between 7.4-7.8. See Basic Water Chemistry for more details.



Routine Use

As mentioned earlier, the Mineral Springs system requires very little maintenance.

WEEKLY you should:

- Test the water weekly and maintain the pH between 7.4-7.8 and Total alkalinity level between 80-120 ppm.
- Add 1 bag of Mineral Springs Renewal® per 20,000 gallons (1 lb. per 5,000).



Every one to 2 weeks you should routinely super-chlorinate your water; see Shocking-Superchlorinating for more details. You should also superchlorinate after heavy bather loads, storms or at first signs of cloudy water or algae. Simply put the unit on "BOOST" and allow your pump to run 24 hours. Mineral Springs™ will automatically take care of everything for you (and then automatically reset itself when finished).

The control box will tell you what the Mineral content of the water is (maintain between 2,500 and 3,200 ppm –maximum of 3500 ppm. Add Beginnings® if it drops below 2500).

Click on your Salt Generator Model listed below to view the complete operating manual

[Intellichlor IC15. IC20. IC40. IC60](#)