



**ALAGLAS**  
SWIMMING POOLS

Alaglas Pools Handbook



## **Thank You and Congratulations!**

Thank you for purchasing an Alaglas Fiberglass Swimming Pool! We know you will enjoy the benefits of using your pool for years to come.

Your Alaglas Pool has been manufactured with superior materials and to our exacting quality standards to ensure you receive an exceptional product.

In this handbook we will outline specific and important information so you can maintain and protect your Alaglas Pool. We urge you to read through the handbook and keep it accessible so you can refer to it if needed. As with anything, correct maintenance is crucial to optimum performance of the product, your enjoyment and ultimately, your overall wellbeing.

We cover your Alaglas Pool with a 50-Year Limited Structural Warranty and a 10-year Limited Surface Warranty to the original purchaser of the pool. However, there are things you need to be aware of and steps you need to take to ensure your pool is properly maintained so as not to interfere with warranty coverage.

There is a Warranty Card included in this handbook. Fill in all information requested and return it to us within 3 months of your pool installation. For us to validate and honor your pool warranties, we must have this information on file.

Also included in this packet is a Product Satisfaction Card. Let us know how happy you are with your new Alaglas Pool or where you would like to see improvement.

Our wish for you is health and happiness as you enjoy your Alaglas Pool with your family and friends.

Kindest Regards,

*Craig Stephens*

Craig Stephens  
President/CEO  
Alaglas Pools

# Contents

<b>NOTICES AND DISCLAIMERS .....</b>	<b>6</b>
<b>IMPORTANT SAFETY INFORMATION .....</b>	<b>7</b>
<b>Drowning .....</b>	<b>7</b>
<b>Paralysis .....</b>	<b>7</b>
<b>Alcohol Consumption .....</b>	<b>7</b>
<b>Chemicals .....</b>	<b>7</b>
<b>Electrocution .....</b>	<b>7</b>
<b>Diving /Jumping.....</b>	<b>8</b>
<b>Pool Slides .....</b>	<b>8</b>
<b>Pool Fencing .....</b>	<b>8</b>
<b>Basic Pool Safety.....</b>	<b>9</b>
<b>BASIC POOL OPERATION .....</b>	<b>10</b>
<b>Skimmer / Hair &amp; Lint Basket Cleaning .....</b>	<b>10</b>
<b>Sand Filter Cleaning .....</b>	<b>10</b>
<b>Operational Tips for Sand Filter .....</b>	<b>10</b>
<b>Cartridge Filter Cleaning .....</b>	<b>11</b>
<b>Standpipe / Sump Tube.....</b>	<b>12</b>
<b>Lowering Pool Level.....</b>	<b>12</b>
<b>Drainage .....</b>	<b>12</b>
<b>Pump Maintenance.....</b>	<b>13</b>
<b>Pump Priming .....</b>	<b>13</b>
<b>Valve Operation.....</b>	<b>13</b>
<b>Vacuuming.....</b>	<b>14</b>
<b>Winterizing .....</b>	<b>14</b>
<b>Modifications / Repairs to Pool.....</b>	<b>14</b>
<b>WATER CHEMISTRY .....</b>	<b>15</b>
<b>Water Balance.....</b>	<b>15</b>
<b>pH.....</b>	<b>15</b>
<b>Total Alkalinity .....</b>	<b>16</b>
<b>The Relationship between pH &amp; Total Alkalinity.....</b>	<b>16</b>
<b>Calcium.....</b>	<b>17</b>
<b>Sanitizer.....</b>	<b>18</b>

<b>Stabilizer .....</b>	<b>18</b>
<b>Adding Chemicals .....</b>	<b>19</b>
<b>Water Quality Issues Guide .....</b>	<b>20</b>
<b>SALT CHLORINATOR .....</b>	<b>21</b>
<b>Controls.....</b>	<b>21</b>
<b>Salt Chlorinator Operation.....</b>	<b>22</b>
<b>Salt Chlorinator Troubleshooting .....</b>	<b>22</b>
<b>IMPORTANT RECOMMENDATIONS.....</b>	<b>23</b>
<b>ALAGLAS RECOMMENDS .....</b>	<b>23</b>
<b>ALAGLAS DOES NOT RECOMMEND .....</b>	<b>23</b>
<b>ALAGLAS POOL WARRANTY.....</b>	<b>24</b>
<b>LOG SHEET for Record Keeping.....</b>	<b>25</b>
<b>ALAGLAS WARRANTY REGISTRATION / INSTALLATION CARD .....</b>	<b>26</b>

## NOTICES AND DISCLAIMERS

This Alaglas Pool Handbook is provided to you to offer advice only. Neither Alaglas Pools nor any entity affiliated with Alaglas Pools, will be held liable in any event for damages to property, injury, lost profits, loss of goodwill or any other special incidental damages or consequences resulting from advice or instructions outlined in this handbook.

Refer to all Owner Instructions provided by the component and equipment suppliers for proper operation and maintenance of any pool equipment, supplies, and chemicals.

Alaglas Pools manufactures Alaglas Fiberglass Pools. Independent dealers/dealerships sell our products. Each of these dealers/dealerships is an independent retailer and/or contractor and they are in no way legally, in fact, or implied, employed by Alaglas Pools.

As each dealer/dealership is operated independently from Alaglas Pools, we disclaim any and all liability for any act, intentional or accidental, which causes damages to a person, pool or property.

The warranty we offer, 50-year Structural and 10-year Surface, is to the original purchaser of the pool and is separate from any other or additional warranty or guarantee offered by a dealer/dealership.

Statements made in literature, brochures, advertising or websites should not be interpreted to imply or create any relationship between Alaglas Pools and any dealer or dealership contrary to these notices and disclaimers.



# IMPORTANT SAFETY INFORMATION

Each year serious injuries and deaths are reported due to unsafe use of pools, equipment, and improper maintenance. Sadly, these are mostly preventable, but it means taking pool ownership seriously. Establish Pool Rules and make sure you have an emergency plan in case of an accident. Following are some areas to be hypervigilant about when using your pool:

## **Drowning**

Drowning can occur in any depth of water, even a bathtub! Never allow children to be in your pool unsupervised...even for a minute! For adults, always let someone know you are going in the pool or use the buddy system. Learn more pool safety tips from these sources:

<https://www.poolsafely.gov/parents/safety-tips/> or

<https://www.redcross.org/get-help/how-to-prepare-for-emergencies/types-of-emergencies/water-safety/home-pool-safety.html>

## **Paralysis**

Pool areas are fun, and excitement runs high but, establishing Pool Rules ensures everyone has fun yet safety is prioritized. Diving, jumping, sliding, running or roughhousing around the pool can lead to serious or catastrophic injury. Make sure everyone knows what the rules are before things get out of hand and someone gets hurt.

## **Alcohol Consumption**

While many adults enjoy alcoholic beverages, it's not a good idea to combine them with pool use. Alcohol influences your balance, coordination and judgment and its effects are increased by sun exposure. Among adults and adolescents, alcohol is involved in up to 70% of deaths associated with water recreation. To read more visit:

<https://www.cdc.gov/homeandrecreationalafety/water-safety/waterinjuries-factsheet.html>

## **Chemicals**

Pool chemicals can be harmful if used or stored improperly. When some chemicals are mixed, explosion and fire can happen. Additionally, contact and inhalation burns can occur if these chemicals are not handled properly. To avoid any issues, read all labels on the chemical containers and follow the manufacturer's instructions. ALWAYS store chemicals out of the reach of children. For a short video on pool chemical safety, visit the APSP site:

<https://www.apsp.org/resources/water-safety/pool-chemical-safety>

## **Electrocution**

Water conducts electricity. Make sure all appliances are kept well away from the pool area and are protected by a ground fault circuit interrupter (GFCI). Also, stay away from the pool when thunderstorms are in the area. To learn more visit:

[http://lightningsafety.com/nlsi\\_pls/swimming\\_pools.html](http://lightningsafety.com/nlsi_pls/swimming_pools.html)

### **Diving /Jumping**

No diving or jumping of any type should occur in any Alaglas Pool or spa. Our swimming pools and spas are not designed for diving or jumping into. We have integrated entry and exit stairs molded into each pool for safe entry and exit from your pool. Make sure to post NO DIVING and NO JUMPING notices clearly around your pool area. Diving or jumping into the pool could result in serious injury or death. Refer to local ordinances for more detail on posting pool safety signage.

### **Pool Slides**

We do not design our pools for use with pool slides. Installing a pool slide is done at the pool owners' risk and with the knowledge it could result in serious injury or death.

### **Pool Fencing**

As always, pool fencing requirements are subject to local building ordinances. In many jurisdictions no water may go into a pool until it is properly fenced and secured. It is critical that you check with your local building authority for specific guidelines and compliance.

## Basic Pool Safety

- Never leave children unattended. Stay engaged and do not be distracted by your phone or anything else! When multiple adults are present, watch children in rotation. This helps prevent lapses in supervision.
- Learn basic water safety and enroll in swimming lessons for both you and your children.
- Swim toys and floaties are not proper flotation devices so do not rely on them to keep children safe.
- Learn the distress signs of drowning, they're different than what you may expect.  
<https://www.thehealthy.com/first-aid/silent-signs-of-drowning/>
- Establish a 'no one swims alone' rule for ALL pool users, no matter how expert they are.
- Keep a cell phone, first aid kit, flotation device and a pair of scissors handy for use in an emergency.
- If a child is missing, check the pool first.
- Learn how to perform CPR on both children and adults and update your skills regularly. For classes in your area contact your local Red Cross or visit their website:  
<https://www.redcross.org/take-a-class/cpr>
- Share any safety instructions with family, friends and neighbors.
- Install 5' or taller fencing and use self-latching, self-closing gates. Ask your neighbors to do the same with their pools. Check local building code requirements to make sure your pool area is compliant with all local ordinances.
- Use a lockable safety cover on your pool or spa.
- Install pool and gate alarms to alert you when children go near the water. Install door alarms or window alarms if your house is the 4<sup>th</sup> wall of your pool fence.
- Make sure any pool and spa you use has compliant drain covers; ask your pool service provider if you are unsure. Keep children away from pool drains, pipes, and other openings to avoid entrapments.
- Keep your pool or spa cover in good shape. If you notice defects have them repaired or, if possible, purchase a new one.

This list of pool safety suggestions is basic and not exhaustive. Alaglas Pools cannot be held liable for injuries resulting from improper or careless/reckless actions, maintenance and use of pool. If an accident or injury occurs, call your local emergency authorities immediately.

## **BASIC POOL OPERATION**

Each Alaglas Pool will have a skimmer located on the side of the pool. The skimmer is the point at which water is drawn from the pool by the pump and is key to proper circulation. The skimmer is designed to trap floating debris from the water surface in a basket. The basket can be removed from the skimmer and emptied.

### **Skimmer / Hair & Lint Basket Cleaning**

The skimmer basket will also trap debris that is vacuumed from the floor of the pool by a manual cleaning vacuum or some automatic pool cleaners. A plate is inserted into the skimmer over the basket in order to create a suction point for the manual cleaning vacuum or some automatic pool cleaners. You should check the skimmer basket regularly and empty debris from it so as not to impede the operation of the pump.

Once through the skimmer the water travels along the suction line to the pump itself. At this point there is a basket built into the pump to trap any debris that managed to get through the skimmer basket. This is called the hair and lint basket and is designed to trap finer particles of debris. Again, this basket is removable and should be cleaned regularly. Please refer to the pump manufacturers Operation Manual for specific operation and maintenance instructions.

Water then passes into the filter for the filtration and removal of even finer particles from the water. Filters are generally sand type filters or cartridge type filters. Most filters have a pressure gauge built into the filter that will tell you when to clean the filter. The more clogged the filter becomes the higher the pressure will become, and this is normally indicated on the pressure gauge.

### **Sand Filter Cleaning**

Cleaning a sand filter is easy. Simply turn off the pump and position the handle at the top of the filter to the backwash position. Turn the pump on and you will see the dirty water rushing out through the backwash line. Most filters have a sight glass where you can view this happening. Normally, backwashing for 3-4 minutes is enough. Turn the pump off and move the handle to rinse and run the pump for about 20 seconds. Again, turn the pump off and return the handle to the original filter position and turn the pump on again. Please don't wander off while you're backwashing because the water could quickly drop below the level of the skimmer box and run the pump dry. Please refer to the Manufacturer's Operation Manual for specific operation and maintenance instructions.

### **Operational Tips for Sand Filter**

- Always turn pump "OFF" before changing valve positions.
- Never run pump dry as it depends on water for cooling
- Motor bearings are sealed. DO NOT lubricate.
- Always maintain minimum water level to ½ way up the skimmer mouth, note arrows on both sides of the skimmer mouth. This prevents air being drawn through the skimmer or potential pump damage resulting from a dry run condition.

- If pump priming difficulties are experienced, check all suction line, valves, gaskets and strainer lid to tightness.
- Clean pump strainer regularly.
- Maintain a proper chemical balance in the pool.

NOTE: The operation procedures outlined covers basic filtration systems. In cases where additional equipment such as: chemical feed apparatus, heating equipment, etc. have been installed consult with installer to verify operational and winterization requirements.

### **Cartridge Filter Cleaning**

The cartridge filter must be removed from its housing in order to clean it. Usually this requires undoing a clamp from the top of the filter and removing the lid. You can then extract the cartridge filter for cleaning. A hose is all you need to wash away the debris that is trapped in the folds of the cartridge filter. Sometimes it helps to slightly open up the folds in the cartridge with your fingers to get the hose right in to thoroughly clean the cartridge. The pump must be off through the entire procedure. Once the cartridge filter is clean, re-assemble the cartridge filter and replace the lid and clamp. There will be some trapped air inside the filter housing. This can be expelled by opening up an air bleed on the top of the lid. Turn the pump on and the air will hiss out of the air bleed. Continue until water spurts out and when this happens, tighten up the air bleed. You're back in business. Please refer to the Manufacturer's Operation Manual for specific operation and maintenance instructions.

The clean filtered water will now return to the pool via the return line, but first it will normally be sanitized. One of the most common systems is a salt chlorinator. The salt chlorinator cell is installed in the return line and produces chlorine from the saltwater by means of electrolysis. Please refer to the Manufacturer's Operation Manual for specific operation and maintenance instructions. Other sanitizing systems are also available. Please refer to these specific Manuals for operation and maintenance instructions.

The clean filtered sanitized water is now on the way back to the pool via the return line. The return line is usually divided at this point into the water returns to the pool via several return jets. It's a good idea to have one of these jets adjusted to move surface water toward the skimmer and one adjusted toward the floor to move any debris on the floor. The cycle is now complete and if you run your filtration system the correct amount of time according to the size of the pool, usage and temperature conditions you should have very few problems.

If you have questions regarding your filter and its maintenance, contact the Alaglas Dealer who installed your pool.

## **Standpipe / Sump Tube**

Your Alaglas Pools swimming pool may have been installed with a standpipe or sump tube. This is a pipe that travels to the bottom of the swimming pool shell and enables you to measure the height of any underground water. The standpipe or sump tube will also enable you to use a pump to remove water around the pool shell should there be a buildup of ground water around the pool.

Excessive ground water around your swimming pool may cause structural damage to your swimming pool that will not be covered by the Alaglas Pools Warranty.

## **Lowering Pool Level**

With pump turned OFF:

- Set valve handle to WASTE.
- Run drain hose to desired location
- Turn pump ON and run until desired level is attained.
- Do not drain water below the skimmer box unless doing so under the supervision of your pool builder.
- Turn pump OFF. Return valve handle to FILTER. Re-start pump.

## **DO NOT EMPTY YOUR SWIMMING POOL**

It is critical that you do not empty your swimming pool or lower the level of the swimming pool water below the skimmer box. This could void your 50-Year Structural Warranty.

Removing the water will place an enormous strain on the structural integrity of the swimming pool resulting in possible damage to the structure of the shell.

Emptying or lowering the water below the skimmer box should only be done under the supervision of your pool builder. If in doubt, contact the manufacturer, Alaglas Pools for advice.

If you empty your Alaglas Pools swimming pool without the supervision of an Alaglas Pool Dealer or manufacturing representative and damage occurs, then your swimming pool will not be covered by the Alaglas Pools Warranty.

## **Drainage**

It is important that when you are installing your swimming pool and undertaking any landscaping work that you keep in mind the drainage of surface water. You must ensure that surface water does not run towards your swimming pool but rather away from the swimming pool. You must install adequate drainage to keep the area around your swimming pool free of heavy surface and sub-surface water.

Excessive water around your swimming pool may cause structural damage to your swimming pool that will not be covered by the Alaglas Pools Warranty.

## **Pump Maintenance**

- Clean strainer basket regularly. Do NOT strike basket to clean. Inspect strainer cover gasket regularly and replace as necessary.
- Hayward pumps have self-lubricating motor bearings and shaft seals. No lubrication is necessary.
- Keep motor clean. Ensure air vents are free from obstruction to avoid damage. Do NOT use water to hose off motor.
- Occasionally, shaft seals must be replaced, due to wear or damage. Replace with genuine Hayward seal assembly kit.

## **Pump Priming**

(After pool to pump plumbing is finished and pool is full of water)

- With the pump “OFF”, remove the lid from the pump strainer basket and pour in approximately 1 gallon of water.
- Replace lid.
- Make sure multiport valve is in “filter” position.
- If isolating check valve has been installed on the pump suction line, close before filling strainer. Open again after lid has been securely fastened in place. Any valve on the return lines should be open.
- Turn pump back on. Pump may take a couple minutes to fully prime.

## **Valve Operation**

System Operation

To Filter:

- With the pump OFF, set valve handle to FILTER.
- Turn pump ON.

To Back-Wash

- With pump OFF, set valve handle to BACK-WASH.
- Run drain hose to desired location.
- Turn pump ON and run for approximately 1 to 2 minutes or until water shows clear in sight glass.
- Stop pump and proceed to rinse.

To Rinse

- With pump OFF, set valve handle to RINSE.
- Start pump and run for 15-20 seconds.
- Stop pump.
- Set valve handle to FILTER.
- Re-start pump.

#### To Clean Pump Strainer

- Turn pump OFF.
- Unscrew strainer lid and remove basket.
- Replace lid to prevent the system from draining while the basket is being cleaned.
- Clean basket.
- Restore to pot and fasten lid securely.

#### **Vacuumping**

- Turn pump OFF. Leave handle at FILTER position. Turn pump ON.
- Place vacuum cleaner in pool with hose and pole attached to vacuum head.
- Fill the hose by submerging under water. Alternatively, hold the hose end over a return inlet until full of water (when all air bubbles have stopped coming out of the vacuum head).
- Install skim vac in skimmer and attach hose.
- Vacuuming is achieved by inserting the hose onto the skimmer vac plate provided.
- Vacuum very slowly for better performance.
- After vacuuming, clean out the pump strainer and skimmer basket of accumulated debris, then back-wash the filter.
- Once vacuuming is complete it's a good idea to backwash filter to remove all waste.

#### **Winterizing**

In some regions of the U.S., it is perfectly okay to leave your pool running all year long. In other colder climates, winterizing your pool is highly recommended.

To ensure proper winterizing, you must first make sure that any rainwater, naturally drains away from your pool. Then, a regimen using skimmer plugs and return plugs combined with blowing out the lines is used.

Please follow recommendations from your authorized Alaglas Pool Dealer for winterization. This will vary due to location, elevation, and climate.

#### **Modifications / Repairs to Pool**

An Alaglas Pools swimming pool is relatively simple to repair should any damage occur. Only a certified Alaglas Pool technician should perform repairs to your Alaglas Pool. If you have any repair issues, please contact the Alaglas Pools dealer that installed your pool. If that is not an option, please contact us directly at (877) 655-7179. Repairs performed by someone not authorized by Alaglas Pools may void your Alaglas Pools Warranty. Please note that all warranty claims must be received in writing and accompanied by supporting information including pictures.

# WATER CHEMISTRY

Untreated or improperly treated pool water can be a health threat that could cause serious injury or death. Chemically balanced and sanitized water, on the other hand, will provide a healthy and visually appealing environment for you, your family and friends.

Pool water can be contaminated with algae and bacteria from a variety of sources, including wind, top-off water, animals and swimmers. Controlling these influences is an ongoing requirement and involves:

- Chemically balancing the water to ensure it is neutral for swimmers, the pool itself and all pool equipment.
- Sanitizing the water to oxidize contaminants.
- Filtering the water to remove oxidized contaminants.
- Regular testing and balancing your water to ensure that all acceptable levels are being maintained.

## Water Balance

Your swimming pool is a water container and the water it contains must be suitable for swimmers, the pool itself and all pool equipment.

Balanced water means that its chemical demands have been met. If the chemical levels are too low the water will aggressively seek the products it needs by attacking and damaging the pool surface and equipment. At the other end of the scale, high chemical levels will also damage the pool surface and equipment and is unhealthy for swimmers.

Out of balance water can, therefore, cause expensive damage to your Leisure Pools swimming pool and equipment and may also inhibit the sanitation process. In simple terms, a scientific water balance program suggests that you should balance the following variables:

- pH
- Total Alkalinity
- Calcium Hardness

## pH

pH is a measure of how acidic or alkaline the water is. The pH scale ranges from 0 to 14, with 7 being neutral. Values below 7 are acidic and values above 7 are alkaline.

With pool water, we are seeking a pH balance suitable to the pool users, the swimming pool shell and the sanitizer used. We recommend a pH level between 7.2 and 7.4.

Topping off your pool, heavy rain, heavy bathing loads and chemical additions can all change the pH level of your pool water. pH must be kept within the operating range because if it is too high or too low it can:

- Create swimmer discomfort.

- Interfere with the efficacy of your pool sanitizer.
- Damage your Alaglas Pools fiberglass swimming pool.

Regardless of the chlorine type or chlorinator process you use, any pH drift above 7.2 to 7.4 will inhibit the sanitizing effect of your chlorine and damage your swimming pool.

So, in order to maintain your 50-Year Structural Warranty on your Alaglas Pools swimming pool you must maintain a pH level of 7.2 to 7.4. We encourage you to keep a monthly written record of the levels in the pool so you can determine trends and anticipate issues.

### **Total Alkalinity**

This is a measure of bicarbonates, carbonates and hydroxides in your water. The recommended range is 80 to 120 parts per million with 100 parts per million being ideal. To that regard, in order to maintain your 50-Year Structural Warranty on your Alaglas Pools swimming pool you must maintain the total alkalinity between 80 to 120 parts per million. Again, we encourage you to keep a monthly written record of the levels in the pool in order to determine trends and anticipate issues.

Lower total alkalinity will lead to the water attacking the walls of the Leisure Pools swimming pool. Low levels will also cause the pH levels to be very unstable with small additions of chemicals resulting in major shifts in the pH values. Your total alkalinity can be changed in the following ways:

- Adding buffer to your pool water to raise the total alkalinity.
- Adding acid to your pool water to lower pH and will also lower total alkalinity.
- Adding water to your pool will change the total alkalinity depending upon the total alkalinity of the top-up water.

### **The Relationship between pH & Total Alkalinity**

Acids will lower the pH and Total Alkalinity. There is a relationship between these two chemical components and because of this; they need to be adjusted together. The levels you want to maintain are:

- pH 7.2 to 7.4
- Total Alkalinity between 80 to 120 part per million.

Let's take a look at the relationship. Assume that the pH is in range but the total alkalinity is low. To raise the level, add "Buffer" (sodium bicarbonate) at the required rate. However, buffer is an alkali and will also raise the pH level. Acid, which is used to lower pH, also lowers total alkalinity. The trick is therefore to raise the total alkalinity artificially high so that when the acid is added, to lower the pH to the correct range, the total alkalinity is also reduced to the correct range.

Two acid types are used to lower pH. One is Hydrochloric Acid and the other is

Sodium Bisulphate. Both will effectively lower the pH and total alkalinity. If using Hydrochloric Acid to lower pH it is vital that it be diluted (one part of acid to ten parts of water) prior to adding to the pool. Note that the filter should be running during addition and at least for one hour afterwards to ensure adequate mixing. No other types of acid should ever be used for pH or total alkalinity adjustment.

## **Calcium**

Calcium naturally occurs in water. Each area has unique levels of calcium in the water. The higher the calcium concentration in the water, the more prone the pool is to calcium leaching. When the pH is maintained between 7.2 and 7.4 the calcium is balanced in the water.

Calcium levels should be maintained between 200- 250 parts per million.

When the pH rises above 7.4, calcium begins to leech out of the water and cling to the swimming pool surface. The higher the pH is allowed to go, the more pronounced the calcification can become. Obviously, the problem occurs more often in areas with higher natural concentrations of calcium in the water (also known as hard water).

All that is required for calcium to fall out of solution creating a layer of scale is a pH of 7.5 or higher and calcium hardness over 150ppm. The higher the levels, the more pronounced the problem will be. The current guidelines being used for adding calcium to water are based on concrete pool guidelines.

If a swimming pool is exposed to high pH levels then an inconsistent discoloration below the waterline can occur. This whitening is due to calcium leaching from the pool water and clinging to the walls, steps and floor of the pool. It can be seen as a streak or solid area and is especially noticeable when the water level is lowered and the calcium dries.

If the swimming pool is exposed to high pH levels and a discoloration starts to occur the problem can be treated in the early stage, say 1 to 3 months, with a chemical solution. First, the pH must be lowered to 6.5. Then treat the swimming pool with Muriatic Acid and calcium treatments available at your local pool supply store. Muriatic Acid refers to a technical grade of Hydrochloric Acid (HCl).

If the pool is equipped with a heater, heat pump, etc. a bypass should be installed to isolate the unit(s) during the treatment to not damage the exchangers. Any other items that may be damaged from an extended low pH environment should also be removed or isolated. Once the problem is controlled, restore the pH to 7.2 to 7.4 and be sure to maintain it between these levels so the problem does not re-appear.

If the swimming pool is maintained with a very high pH over a period of time, longer than 3 months, the problem can turn severe. The calcium begins to combine with the pool chlorine producing a chemical salt known as Calcium Chloride. This is known as  $\text{CaCl}_2$  and is a salt comprised of calcium and chlorine. The salt attaches itself to the pool surface and causes the surface to appear significantly lighter, especially when dehydrated. In advanced cases, the

Calcium Chloride is so bad that the pool still shows the whitening even when hydrated (full of water).

If the pool has advanced Calcium Chloride but the gelcoat returns to normal when hydrated, the pool can be treated using a chemical solution outlined above. It will take up to 6 months to allow the treatment to totally dissolve the Calcium Chloride so it is best done over winter months. The pool will become more acidic during this treatment, so it is not recommended for swimming.

If the gelcoat has severe damage by the salt (Calcium Chloride) and it is visible when hydrated, then the solution is to remove the salt from the surface of the pool. To date, we have not been able to identify a chemical solution for salt removal. As a result, the surface needs to be buffed and polished to remove the salt build-up and then to restore the luster of the pool surface. It is however very important that you speak with your builder before draining the pool. (Refer to page 12: LOWERING POOL LEVEL)

Please note that some areas of the country have inherently high, naturally occurring calcium levels. In these areas, we would suggest that you incorporate a stain and scale treatment as a part of general maintenance. Make sure to discuss this with your water care professional for suggestions about which type to use.

### **Sanitizer**

Chlorine is the most commonly used water sanitizer in the world. There are many forms of this highly effective product, including:

- Granular Chlorine (Calcium Hypochlorite) – Granular Chlorine can raise calcium levels (see above).
- Liquid Chlorine (Sodium hypochlorite).
- Stabilized chlorine (chlorine in two forms “dichlor” granular chlorine approximately 60% active and “trichlor” slow dissolving tablets approximately 90% active).
- Saltwater chlorinators – these units produce chlorine through electrolysis of salt in the pool water.

Whatever form of chlorine you use, the pH must be in the correct range and there must be sufficient quantities of chlorine for it to work. It is recommended that free chlorine levels are maintained between 1 to 2 parts per million. Chlorine levels should not exceed 5 parts per million as this can damage the Alaglas Pools swimming pool.

To check Free Available Chlorine, use a DPD test kit or contact your local Alaglas Pools Dealer.

### **Stabilizer**

Ultra-violet light attacks chlorine. Stabilizing pool water involves adding the chemical Cyanuric Acid to reduce the amount of chlorine destroyed by sunlight. Up to 5 parts per million of free available chlorine can be destroyed in three hours in strong sunlight.

For health and financial reasons, it is important to overcome this effect as much as possible. Stabilizing the water is strongly recommended in all outdoor pools. For the initial stabilizing of a new pool, Cyanuric Acid should be added to achieve the recommended level of 30 to 50 parts per million.

Stabilizer is lost through splash-out and backwashing of the filter, and so will need to be replaced, especially during the swimming season. To do this it is necessary to first test for residual levels in the water. A water professional will be able to test the water in your pool and tell you how much stabilizer to add.

As you only need stabilizer in warmer months, adjust the level at the beginning of the swimming season and check it every few months during the season. Of course, if you have to pump out water, or if you lose a lot through splash out and backwashing, more frequent testing and adjusting will be required.

### **Adding Chemicals**

A general rule is, it is far better to add small amounts of chemicals, running the filter and testing the effect after several hours. Attempting large chemical changes by adding large amounts of chemicals can result in big problems.

#### 2 VERY IMPORTANT THINGS TO REMEMBER ABOUT POOL CHEMICALS:

- WHEN ADDING OR DILUTING CHEMICALS TO THE POOL, NEVER MIX A CHEMICAL WITH ANY OTHER CHEMICAL!
- ALWAYS ADD CHEMICALS TO WATER - NEVER ADD WATER TO CHEMICALS. EXPLOSIONS HAVE BEEN KNOWN TO OCCUR RESULTING IN INJURY OR DEATH!

## Water Quality Issues Guide

	Problem	What to look for	Treatment
<b>Cloudy Water</b>	Pool Filtration	Slow filter turnover rates.	Backwash and clean filter. Run filter for 24 hours. Increase run time per day.
	Algae Growth	Hazy pool – may have slightly green appearance.	With your Alaglas Dealers' guidance, super chlorinate the water and brush pool wall.
	Unbalanced Water	High hardness, High TDS (total dissolved solids), High pH, High total alkalinity.	Balance the pool water or call your Alaglas Pool Dealer.
<b>Algae</b>	Green Algae	Pea green in color, attached to pool walls, sometimes colors the entire body of water.	Check pH and adjust if necessary. Under your Alaglas Dealers' guidance, super chlorinate water and brush pool walls. Repeat until algae is gone.
	Black Algae	Black spots on pool walls.	Brush affected areas. Under your Alaglas Dealers' guidance, super chlorinate water and add algaecide. Vacuum pool. Repeat until algae is gone.
	Mustard Algae	Yellow or brown film on steps or walls.	Brush affected areas. Under your Alaglas Dealers' guidance, super chlorinate water and add algaecide. Vacuum pool. Repeat until algae is gone.

NOTE: If you are experiencing water quality problems. Contact your Alaglas Pool Dealer and bring in a water sample for testing. Your Alaglas Dealer will be able to recommend the proper treatment to keep your water balanced and sparkling clear.

# SALT CHLORINATOR

## Controls

### Main Switch

**AUTO:** For normal operation, the Main Switch should be left in the AUTO position. In this position the Aqua Rite will produce chlorine according to the "Desired Output %" adjustment setting for the entire filtering/pumping cycle.

**SUPER CHLORINATE:** When you have an abnormally high bather load, a large amount of rain, a cloudy water condition, or any other condition which needs a large amount of purification to be introduced, put the Main Switch in the SUPER CHLORINATE position. This electronically "super chlorinates" (shocks) the water for 24 hours (filter pump must be on during this time) or until the power has been turned off, whichever comes first. At the end of the super chlorinate time be sure to put the switch back into the AUTO position.

**OFF:** This position prevents the Aqua Rite from energizing the electrolytic cell. In this position there is no chlorine generation. NOTE: To service any of the pool equipment or the Aqua Rite turn the power off at the circuit breaker.

### Indicator LED's

**POWER:** When illuminated, the Aqua Rite has input power.

**GENERATING:** This LED is on steady during normal operation. When flashing, the pool water is too hot or cold to operate.

**SUPER CHLORINATE:** Illuminates during super-chlorination. See description above.

**REMOTELY CONTROLLED:** When illuminated, indicates that a remote pool automation control (Hayward Pro Logic, etc.) is controlling the Aqua Rite—the main switch and "Desired Output %" adjustment are inactive.

**NO FLOW:** When illuminated, the flow switch has detected no water flowing and the Aqua Rite has stopped generating chlorine. A flashing LED indicates a 15-60 second time delay period.

**CHECK SALT:** When flashing, the salt level is low (below 2700 ppm) and Aqua Rite is generating at low efficiency. When illuminated steady, the salt level is too low and Aqua Rite has shut down. Before adding large quantities of salt, it is advisable to have your salt level professionally checked.

**HIGH SALT:** When illuminated, the salt level is too high and Aqua Rite has shut down.

**INSPECT CELL:** A flashing indicator signifies that either the cell efficiency is reduced or that it is time for regularly scheduled cell inspection. In either case, inspect cell and

clean if necessary. When illuminated steady, cell efficiency is greatly reduced, and the Aqua Rite has stopped producing chlorine. Inspect, clean or replace if necessary. This light will come on every 3 months as a reminder to remove the salt cell and inspect and clean as necessary. To remove this light after inspection, press and hold the “Diagnostic” button for 3 seconds or until light turns off. This will reset the internal timer for another 3-month interval.

### **Salt Chlorinator Operation**

Assuming the water chemical levels are in the recommended range, there are three factors you can control which directly contribute to the amount of chlorine the Aqua Rite will generate:

- filter time each day (hours)
- the "Desired Output %" setting
- the amount of salt in the pool

The filter pump timer should be set so all the water in the pool passes through the filter each day. For pools with high chlorine demand, the timer may need to be set longer to generate enough chlorine.

### **Salt Chlorinator Troubleshooting**

On this inside panel of your salt generator is a trouble shooting guide as well as a proper water chemistry guide. Follow all instructions and do not attempt to perform repairs unless owner’s manual states you can make repairs without certified pool professional.

# IMPORTANT RECOMMENDATIONS

## ALAGLAS RECOMMENDS

- KEEP DANGER / NO DIVING stickers on pool and in good repair.
- Backwash filter every 7 – 10 days or when pressure is high (8-10 psi) above clean filter pressure. Keep skimmer basket and pump basket clean.
- Once a year, drop the water level six inches and wax the water line up and across the top with high-grade auto wax.
- Use 409 or non-abrasive cleaner for stains or scum line. For stubborn stains, use regular polishing compound, then apply two coats of wax over compounded areas.
- Freezing will not hurt the fiberglass pools, so you can leave it full and running in the winter. During extreme freezing, lower the water level to just below the skimmer and drain all the lines plus the pump and filter – refer to page 14: Winterizing.
- Run your pump continuously.
- Direct the returns to create a flow of water in a circular motion.
- Back-wash the filter when the nozzles lose pressure. Keep the basket in the skimmer clean.
- Keep water level should be kept in line with the arrows located in the center of the skimmer plate. Lower water levels will cause the pump to lose prime resulting in pump damage. Higher water levels reduce the effectiveness of the skimmer.

## ALAGLAS DOES NOT RECOMMEND

- Using any acid wash on fiberglass pools. Use of acid wash can void your Alaglas 10-Year Surface Warranty.
- Using any abrasive cleaners like Comet, Ajax or Grease Lightening. Use of abrasive cleaners can void your Alaglas 10-Year Surface Warranty.
- Using Brillo pads or similar scratch pads on fiberglass pools. Use of scratch pads can void your Alaglas 10-Year Surface Warranty.
- Draining your pool at any time unless under the supervision of your pool builder, Alaglas Dealer or without Alaglas Pools' knowledge or assistance. This could void your Alaglas 50-Year Structural Warranty.
- Adding chemicals directly into the pool. ALWAYS add chlorine to water, NEVER water to chlorine.

# ALAGLAS POOL WARRANTY

**ALAGLAS POOLS**  
**Limited Lifetime Warranty**  
**To ORIGINAL RETAIL BUYER**

**CONDITIONS**

THIS LIMITED WARRANTY IS OFFERED BY ALAGLAS POOLS, HEREAFTER TERMED "WARRANTOR," AND IS SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS:

Only the ORIGINAL RETAIL BUYER of an Alaglas fiberglass pool shell may enforce the following NON-TRANSFERABLE LIMITED WARRANTY. As used throughout this warranty document, the term "ORIGINAL RETAIL BUYER" refers to the person who initially purchases an Alaglas pool from a currently authorized Alaglas dealer in a retail sale, and not principally for the purpose of resale. This LIMITED WARRANTY is not offered to any person other than the ORIGINAL RETAIL BUYER of an Alaglas pool and may not be enforced by anyone asserting the protection or application of this LIMITED WARRANTY under a claim of transference, conveyance, or any other means of receipt of this LIMITED WARRANTY from the ORIGINAL RETAIL BUYER. This following NON-TRANSFERABLE LIMITED WARRANTY does not apply to pools which are used for purposes other than ordinary recreational swimming activities.

**SWIMMING POOL SHELL**

Warrantor warrants the Alaglas fiberglass pool shell to the ORIGINAL RETAIL BUYER for a period of fifty (50) years from the date of installation, under normal use. The Alaglas fiberglass pool is warranted only against leaking caused by the structural failure of the shell due to faulty workmanship or materials used in the manufacture of the pool shell. Any failure of the shell to retain water shall be repaired so that it will hold water, at no charge to the buyer. The term "structurally sound" means that the fiberglass shell is capable of containing and retaining water without water loss due to a crack in the structure.

Warrantor finish coat or gelcoat or grancock is warranted against osmotic blistering for a total period of ten (10) years. This warranty excludes discoloration and/or staining due to local water, wrong use of chemicals, or lack of cleaning.

**LIMITATIONS**

No warranty extends to any part of the swimming pool, its equipment or appurtenances thereto which are caused by any of the following conditions or events:

1. Defects or failures caused by abuse, lack of reasonable care, lack of necessary maintenance, improper operation, vandalism, acts of God, or normal wear.
2. Damages or failures to plumbing lines, filter, motors and pumps caused by freezing.
3. Discoloration, staining cracks and imperfections in pool deck and concrete products. Only cracks exceeding in width the thickness of a quarter will be repaired by Alaglas Pools at no cost to the original buyer within the limited warranty period.
4. Damages or failures caused by surface or subterranean drainage under or around said pool or earth fill movement, explosions, wrecking, expansive soil and the like, and not occasioned by Alaglas Pools.
5. This limited warranty will be voided in the event of unauthorized drainage of the pool below the skimmer outlet. The fiberglass pool shell may crack or buckle if the water level falls below the skimmer outlet. Do not drain the pool yourself or allow any unauthorized person to drain it.
6. Warrantor makes NO warranty regarding any decking installed or used in connection with the Alaglas pool shell, whether such decking is constructed of concrete, wood, masonry, or any other material. This includes, but is not limited to, warranty against cracking, chipping, heaving, settling, separating, crumbling, splitting, or warping.
7. Warrantor does not warrant pool attachments, accessories, or other equipment or supplies purchased by Warrantor from other manufacturers or suppliers and used or sold in connection with the installation of the Alaglas pool shell. Buyer must look to these other manufacturers or suppliers of such attachments, accessories, equipment, or supplies for warranty protection and, in the event of defects, for repair, replacement, or other remedies.
8. Warrantor does not warrant the Alaglas fiberglass pool shell against defects resulting from the Buyer's failure to provide reasonable and necessary maintenance, including but not limited to, maintaining proper chemical balance.
9. With respect to installation, Warrantor does not warrant the Alaglas fiberglass pool shell in any manner whatsoever unless the installer strictly complies with specifications approved by Warrantor. Failure to adhere to those specifications released Warrantor from all obligations to Buyer under this written warranty and any other express or implied warranty.
10. Warrantor does NOT warrant the Alaglas pool shell in any manner whatsoever if repairs or replacements to the pool shell is made by anyone other than a representative authorized by Warrantor to effect repair and replacement under the terms of the LIMITED WARRANTY.
11. Warranty does NOT warrant the Alaglas fiberglass pool shell for damage resulting from misuse, accident, or acts of God including, but not limited to, flood land slides, and earthquakes, nor improper installation, dealer storage, or transportation.

**BUYER'S DUTY IN THE EVENT OF BREACH**

In the event of breach of this LIMITED WARRANTY, buyer must notify WARRANTOR of the defect within fifteen (15) days of its discovery by registered mail sent to the below listed Alaglas Manufacturing Plant. Prior to commencing any repair or replacement of the pool shell, Buyer must obtain from Warrantor, in writing, the name of the representative authorized by Warrantor to effect repair or replacement under the terms of the LIMITED WARRANTY. Warrantor agrees to promptly provide Buyer with this information in writing.

**BUYER'S DUTY TO READ POOL MAINTENANCE MANUAL**

The Buyer has an express duty to read and follow the specific pool care instructions in the Pool Maintenance Manual provided with this LIMITED WARRANTY. The Pool Maintenance Manual not only discusses the danger of draining the pool – as noted in Item 5 above – but also warns against such practices as using pool chemicals and maintenance treatments which are acceptable for non-fiberglass pools but which may cause damage or discoloration to a fiberglass pool. Failure of the Buyer to maintain the Alaglas fiberglass pool in accordance with the instructions in the Pool Maintenance Manual will render this LIMITED WARRANTY null and void.

**WARRANTOR'S DUTY TO REPAIR OR REPLACE**

In the event a leak occurs in an Alaglas Fiberglass Pool shell as a result of faulty workmanship or material used during manufacture, Warrantor agrees to repair or replace the defective shell within a reasonable time. The choice of repairing or replacing will be at the sole discretion of the Warrantor. If the Warrantor elects to replace defective shell, Warrantor will replace, at its option, all such replacement shells with shells which are identical or reasonably equivalent to the original warranted shell. Alaglas specifically reserves the right to alter design specifications and discontinue models. All repairs or replacement shells will then be warranted for the unexpired portion of the warranty. Warrantor's duty under this LIMITED WARRANTY shall extend ONLY to repair or replacement of the defective shell. Warrantor is under no duty to refund any or all of the purchase price of the pool.

In the event the Warrantor elects to replace a pool shell, the Warrantor agrees to use reasonable care in installing the replacement shell. Warrantor accepts no responsibility for any resulting damage to surrounding or adjacent landscaping or fencing sustained during the removal of the defective shell and/or the installation of the replacement shell. The cost of transporting the replacement shell to the installation site shall be borne by the Warrantor. Warrantor warrants the replacement shell only against leaking caused by structural failure of the shell due to faulty workmanship or materials used in the manufacture of the pool shell.

**IN NO EVENT SHALL WARRANTOR BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES WHATSOEVER (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS AND PROPERTY DAMAGE) RESULTING FROM THE BREACH OF ANY PROVISION OF THIS WARRANTY, WHETHER OR NOT OCCASIONED BY WARRANTOR'S NEGLIGENCE, EVEN IF WARRANTOR HAS BEEN ADVISED OF THE POSSIBILITY THEREOF. SOME STATES DO NOT ALLOW THE EXCLUSION OF LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.**

**IMPLIED WARRANTIES**

The duration of any and all implied warranties, including warranties of merchantability and fitness for a particular purpose is limited to the duration of the written warranty made herein on the Alaglas fiberglass pool shell only.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

**EXCLUSIVE WARRANTY**

The LIMITED WARRANTY constitutes Warrantor's exclusive warranty regarding Alaglas fiberglass pool shells. Any and all representations, promises, warranties, or statements made by any person or entity other than Warrantor – including but not limited to Warrantor's agents, dealers, or authorized representative – shall have no force or effect whatsoever if such representations, promises, warranties, or statements differ from the contents of this LIMITED WARRANTY.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

**WARRANTY REGISTRATION FORM**

This WARRANTY REGISTRATION FORM must be completely filled out and signed by the Buyer of an Alaglas fiberglass pool shell and returned within ten (10) days of purchase of the pool to the below listed Alaglas Manufacturing Plant.

Completing and submitting this WARRANTY REGISTRATION FORM in accord with the above instructions is a condition precedent to coverage and performance under the LIMITED WARRANTY. Failure of the Buyer to complete and submit the WARRANTY REGISTRATION FORM as required above will render this LIMITED WARRANTY null and void.

A copy this warranty has been made available to the purchase during the sales presentation.

All notices to Alaglas Pools made under this LIMITED WARRANTY should be directed to:



# ALAGLAS WARRANTY REGISTRATION / INSTALLATION CARD

Please Fill in all information on the Warranty Registration Card, sign it and return to Alaglas Pools within 60 days of the completion date of your pool installation.

<b>Alaglas Pool Warranty Registration Form</b>	
<b>OWNER INFORMATION/POOL LOCATION (Fill in all information completely)</b>	
Name _____	Phone _____
Address _____	Cell _____
City, State, Zip _____	<input type="checkbox"/> Pool is for Private Residence
Email _____	<input type="checkbox"/> Pool is for Commercial Use
<b>INSTALLER INFORMATION (Fill in all information completely)</b>	
Business _____	Phone _____
Address _____	Cell _____
City, State, Zip _____	
Email _____	
<b>POOL INFORMATION (Fill in all information completely)</b>	
Pool Model _____	Color _____
Date Installation Began _____	Serial # _____
Date Installation Complete _____	
Additional Features/Options Installed: _____	
_____	
_____	
<b>Please Sign, Date and Return Card to Alaglas Pools within 60 days of Completion Date of Pool.</b>	
I have read the Alaglas Pool Limited Lifetime Warranty and understand the conditions, limitations, and duties contained within the warranty.	
Pool Owner Signature: _____	Date: _____
Printed Name: _____	

