



## **Pool Setup & Maintenance Guide**

Supplement to Pool Owners Manual

**Note:** The original copy of your owners manual will be mailed from Kayak Pool Corporation

**1-800-SWIMTEX**

**IF YOU NEED HELP, PLEASE COMPLETE  
A SERVICE REQUEST ON OUR WEBSITE**

**[WWW.SWIMTEXSUN.COM](http://WWW.SWIMTEXSUN.COM)**

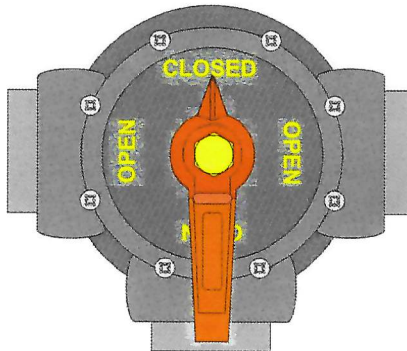
## Pool Setup & Maintenance Guide

### Ball Valve

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#### Introduction

The Ball Valve is the device that controls the flow of water from the pool to the pump. It determines how much of the water flow is from the skimmer and how much is from the floor drain. The valve is shaped like the letter T and it is sometimes referred to as a T-valve.

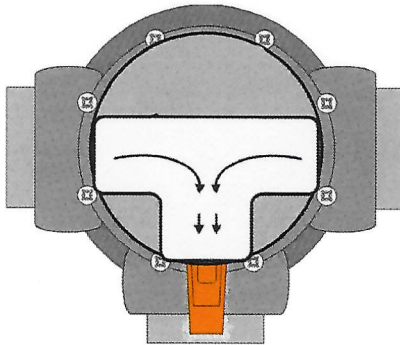


#### Internal cylinder

Inside is the t-valve or cylinder which can rotate to close or open the different ports.

#### **IMPORTANT**

To prevent any possible damage turn off the pump before making any adjustments to the ball valve.



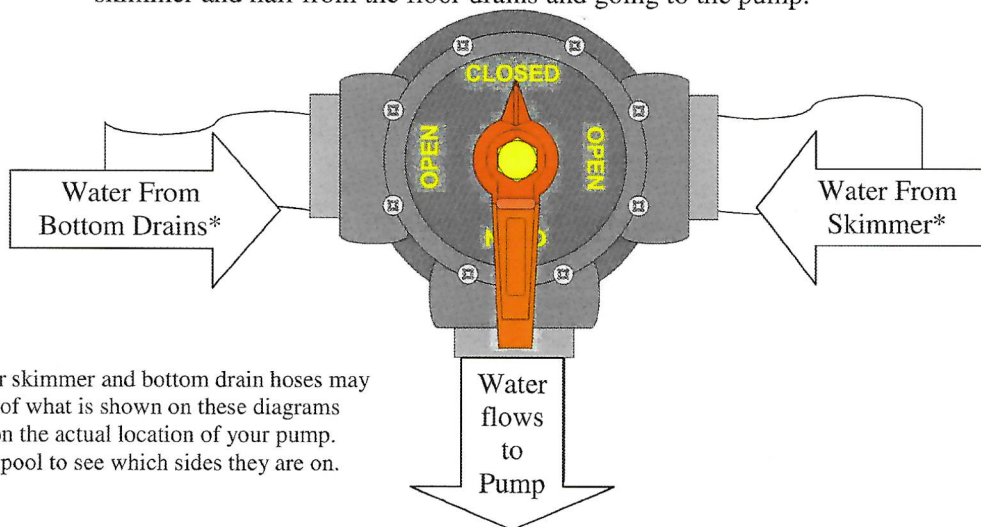
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## Pool Setup & Maintenance Guide

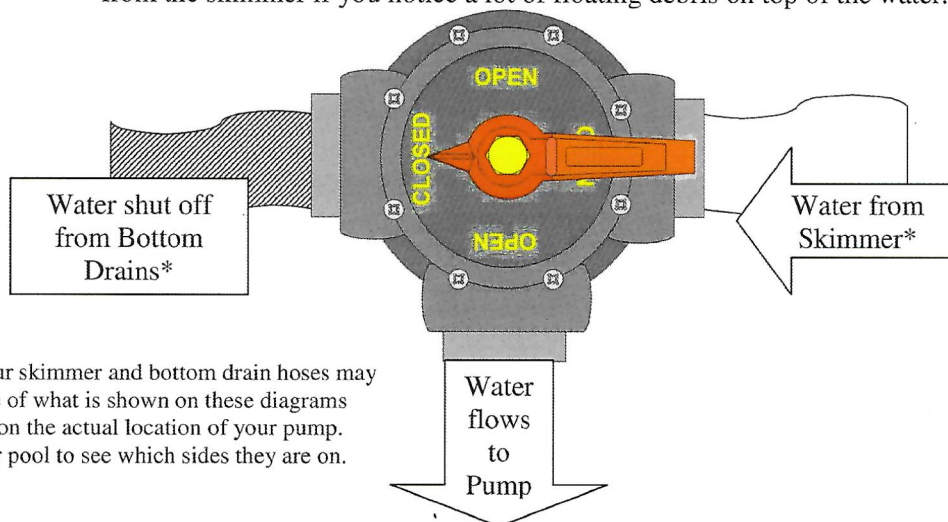
### Ball Valve, Continued

**Open position** The red handle allows you to rotate the internal cylinder there are markings showing 'open' and 'closed'. When all the 'open' designations are aligned with the openings (see below), the flow of water is coming half from the skimmer and half from the floor drains and going to the pump.



**\*Note:** Your skimmer and bottom drain hoses may be opposite of what is shown on these diagrams depending on the actual location of your pump. Check your pool to see which sides they are on.

**Skimmer only position** By turning the handle you can adjust the flow or shut off either the skimmer or bottom drains. For example, you might close the drains to get more suction from the skimmer if you notice a lot of floating debris on top of the water.



**\*Note:** Your skimmer and bottom drain hoses may be opposite of what is shown on these diagrams depending on the actual location of your pump. Check your pool to see which sides they are on.

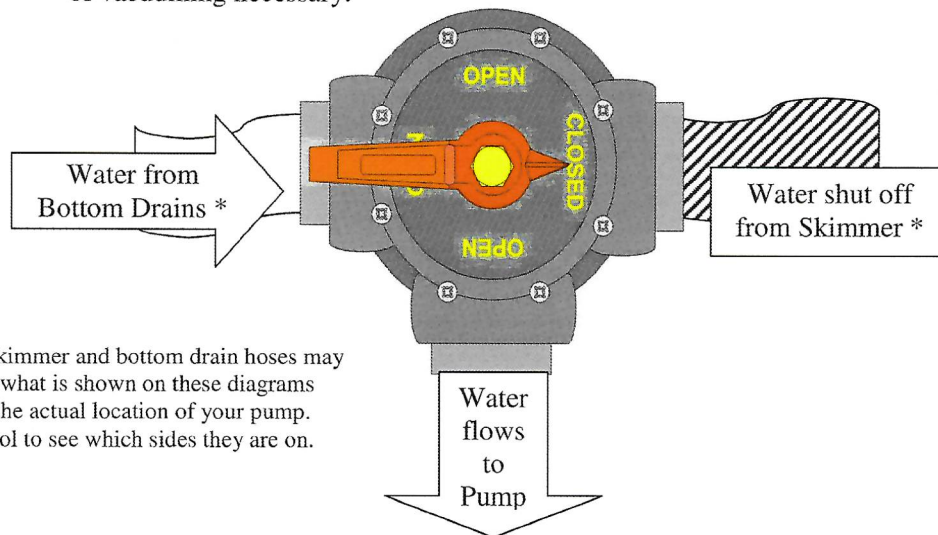
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## Pool Setup & Maintenance Guide

### Ball Valve, Continued

#### Bottom drain only position

If not, you might want more drawn from the floor drains to reduce the amount of vacuuming necessary.



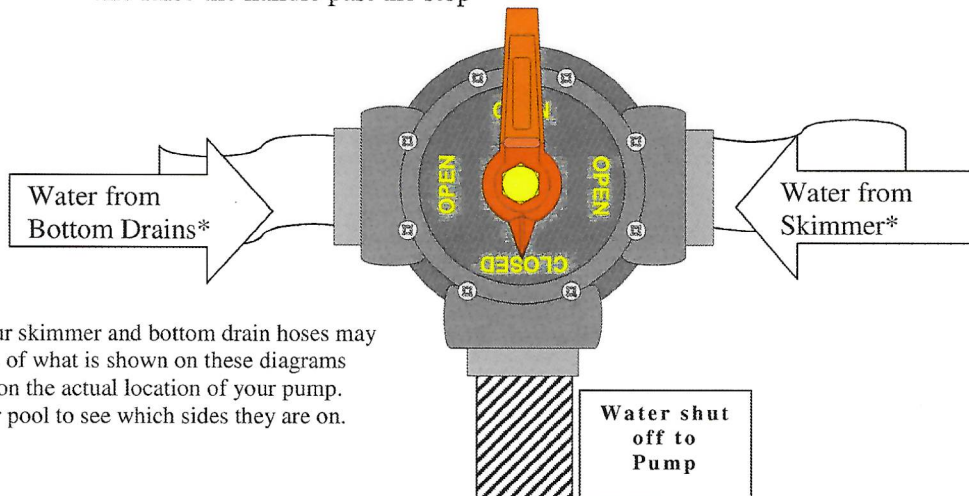
**\*Note:** Your skimmer and bottom drain hoses may be opposite of what is shown on these diagrams depending on the actual location of your pump. Check your pool to see which sides they are on.

#### Closed position

You can also shut off the flow going to the pump if you need to service the pump or tank.

#### **IMPORTANT**

When needing to turn the handle more than 180°, unscrew the yellow screw and raise the handle past the stop



**\*Note:** Your skimmer and bottom drain hoses may be opposite of what is shown on these diagrams depending on the actual location of your pump. Check your pool to see which sides they are on.

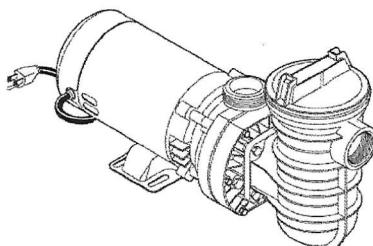


## Pool Setup & Maintenance Guide

### Pump

#### Pump

Your Kayak Pool comes with a 1.0 horsepower pump that pulls water from the pool and strains small objects and particles before they reach the filter and chlorinator.



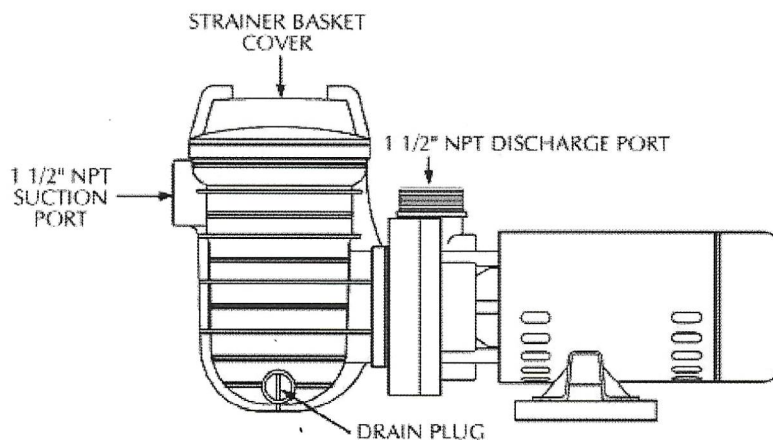
**⚠ DANGER HAZARDOUS SUCTION.** Pump suction can trap or tear body parts, especially with children. Do not block suction. Small children using pool **MUST ALWAYS** have close adult supervision!

**⚠ CAUTION DO NOT OPERATE SYSTEM** with water temperatures above 110 degrees F (43 degrees C)

**⚠ CAUTION NEVER RUN PUMP DRY.** Running pump without water in it may damage seals, causing leakage and flooding. Fill pump with water through the hair and lint strainer lid before starting the pump.

**⚠ WARNING DO NOT ADD CHEMICALS** to pool directly in the pool skimmer. Adding undiluted chemicals may damage pump and void warranty.

#### Diagram of Pump



## Pool Setup & Maintenance Guide

### Cartridge Filter

#### Cartridge Filter (If So Equipped)

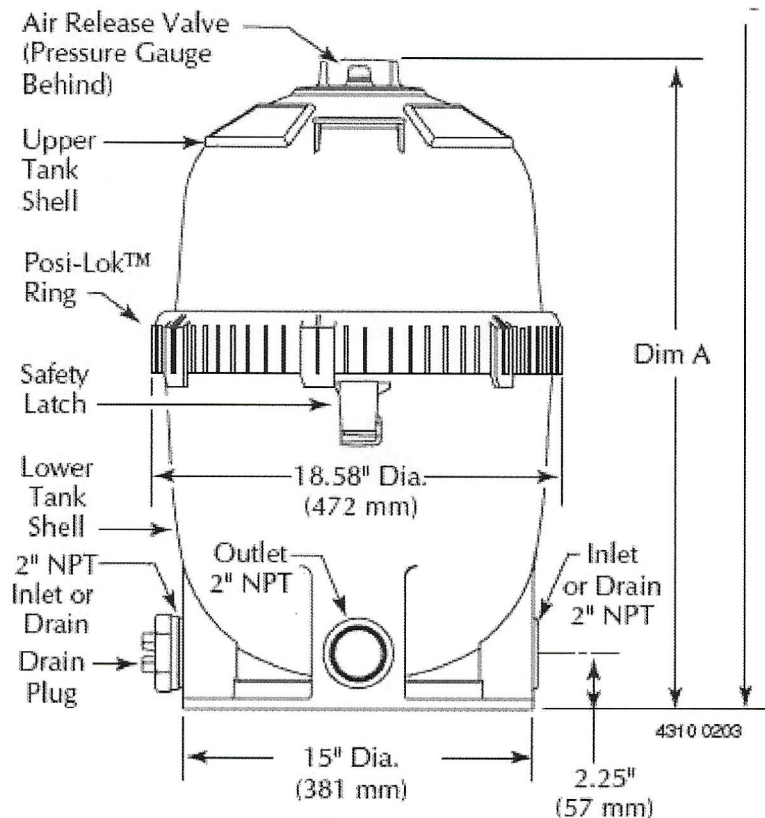
Your Kayak Pool comes with a cartridge filter.\* With this deluxe filter in place and operating correctly, clean water is returned to the pool faster than the pool water is being contaminated.

**NOTICE** – After pool installation, it typically takes one week of operation to obtain the sparkling clean water that your filter is capable of giving you.

**⚠ CAUTION** - DO NOT OPERATE these filters at more than 50 PSI under any circumstances!

**⚠ WARNING** - HAZARDOUS PRESSURE can cause severe injury or major property damage from tank blow up. Release all pressure and read instructions before working on filter.

Diagram of  
Cartridge Filter  
(Fig 1)



\* Note: Your pool is equipped with either a cartridge filter, or a sand filter. Both are outlined in this Pool Guide.

## Pool Setup & Maintenance Guide

### Frog Cyclor ®

#### About the Frog Cyclor ®

With a FROG ® auto-chlorinator your pool water will look and feel better without a lot of work or a lot of chlorine. The minerals destroy bacteria and help keep the pH in a safe range without monitoring while reducing chlorine use. The end result is softer water that has an added sparkle.

Using your test kit (included with maintenance package) and your FROG ® Cyclor you will be able to maintain the ideal water balance chemistry.

**⚠ WARNING** – Avoid sparks, open flame or smoking when handling the Bac Pac.



## Pool Setup & Maintenance Guide

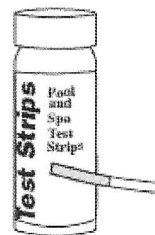
### Test Kit

#### How to Use the Test Kit

A test kit enables you to test two important factors:

- combined chlorine level
- and pH level.

To keep your pool at its best, test each end of the pool at least twice a week.



Step	Action
1	Remove a test strip from the bottle and replace cap tightly.
2	Hold the strip underwater (1 foot below surface) for 1 second and remove.  <b>NOTICE</b> – DO NOT shake excess from the test strip
3	Hold the strip level, pad side up, for 15 seconds.
4	Compare the <b>pH</b> pad to the color patches on the label. <ul style="list-style-type: none"><li>• The pH pad will turn a shade of red-orange.</li><li>• The ideal range for pH is between 7.2 to 7.6.</li><li>• Write down the result.</li></ul>
5	Compare the <b>Free Chlorine</b> pad to the color patches on the label. <ul style="list-style-type: none"><li>• The Free Chlorine pad will turn a shade of pale-purple.</li><li>• The ideal range for Free Chlorine is between 1 to 3 ppm.</li><li>• Write down the result.</li></ul>
6	Compare the <b>Total Alkalinity</b> pad to the color patches on the label. <ul style="list-style-type: none"><li>• The alkalinity pad will turn a shade of green.</li><li>• The ideal range for Total Alkalinity is between 80-120 ppm.</li><li>• Write down the result.</li></ul>
7	Compare the <b>Stabilizer</b> pad to the color patches on the label. <ul style="list-style-type: none"><li>• The Stabilizer pad will turn a shade of brown to purple.</li><li>• The ideal range for Total Stabilizer is between 30-100 ppm.</li><li>• Write down the result.</li></ul>
8	Then using your test kit, find the FROG dial setting that works best for you. Once you have determined the dial setting that works best make a note of it, or using a permanent marker, make a line right on the FROG canister.



## Pool Setup & Maintenance Guide

### Water Chemistry

#### Adding Chemicals

In general, chlorine and other chemicals should be added directly to the pool water with the filter running. When handling and administering pool chemicals, read the instructions carefully and follow the manufacturer's directions.

#### WARNINGS

- **ALWAYS** add chemicals to water, NOT water to chemicals
- **NEVER** mix chemicals – add them to the pool separately.
- **NEVER** add chlorine products in your skimmer.

**Stabilizer** – Chemically, a stabilizer (also called conditioner) is Cyan Uric acid. It slows down the degradation of chlorine in the water by sunlight. Too much does not slow down chlorine activity or effectiveness. Adding stabilizer will also prevent “chlorine burn off” which is the deterioration of chlorine from extreme heat. Minimum level is 10 ppm. The ideal level of stabilizer is 25 ppm.

**pH Importance** – A low pH indicates acidic water and a high pH indicates alkaline (basic) water. pH should always be adjusted to the proper range before the addition of chlorine or other chemicals otherwise it will seriously affect their performance.

Symptom	Cause	Solutions
Cloudy / Milky water (no green slime)	A. pH or Alkalinity problem B. Low Sanitizer level C. Calcium based chlorine D. Suspended particles	A. Test & balance with recommended products. B. Shock pool & check Chlorine level C. Discontinue use and start with stabilized chlorine. D. Clean filter. Continue to filter. Keep water balanced.
Brown or Rusty water (not slimy)	Iron or Mineral problem	Add mineral remover, keep filter clean.
Rapid Loss of Chlorine	A. Insufficient Stabilizer (cyan uric acid) B. Large bather load	A. Add Stabilizer B. Shock pool & check Chlorine level
Green / Slimy water	Algae	A. Shock pool & check Chlorine level B. Add Algaecide C. Adjust pH to 7.2 – 7.6 by adding pH products
Spots on Liner A. Brown B. White	A. Low Alkalinity B. Improper use of Chlorine	A. Test and add Alkalinity increaser B. Read label and follow directions of use
Strong Chlorine smell	Chlorine efficiency depleted	A. Shock pool & check Chlorine level

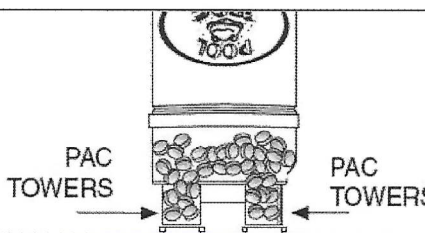
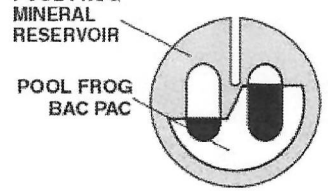
## Pool Setup & Maintenance Guide

### Replace FROG Bac Pac

#### How to Replace FROG Bac Pac

**Not required with salt system**

The FROG® Bac Pac must be replaced every 2-3 weeks depending on use.

Step	Action
1	Turn off the pump.
2	Put the ball valve in the “ <b>closed position</b> ”
3	Open air release valve on top of filter.
4	Set Frog Dial to <b>0</b> (Pack Removal)
5	Unscrew and remove the top of FROG Cyclor canister.
6	Remove Bac Pac.
7	Remove Bac Pac colored caps, grab on to the lip of one cap with a pliers and pull up until cap releases. Repeat the process for the other cap. <b>⚠ WARNING</b> Avoid sparks, open flame or smoking when handling the Bac Pac.
8	Turn Bac Pac over and shake slightly until chlorine tablets fall into tower areas. 
9	<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">  <p>POOL FROG MINERAL RESERVOIR</p> <p>POOL FROG BAC PAC</p> </div> <div> <p>Line up the small leg of the Bac Pac with the small opening in the Mineral Reservoir and the large leg with the large opening.</p> </div> </div> <p>• Lower Bac Pac into Mineral Reservoir until secure.</p>
10	Replace cap by hand only. <b>DO NOT OVER TIGHTEN</b> <b>⚠ CAUTION</b> DO NOT USE CAP TOOL TO TIGHTEN CAP. Use for removal only.
11	Set Frog Dial back to normal operating level
12	Put the ball valve in the “ <b>open position</b> ”
13	Start pump to purge air from the system.
14	When steady stream of water comes from air release valve close the valve.

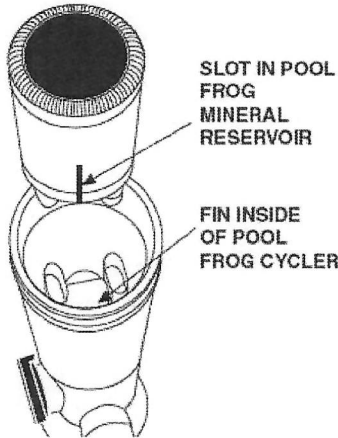
## Pool Setup & Maintenance Guide

### Replace FROG Mineral Cartridge

#### How to Replace FROG Mineral Cartridges

#### Not required with salt system

The POOL FROG® mineral reservoir must be replaced every 6 months or after one pool season whichever is shorter.

Step	Action
1	Turn off the pump.
2	Put the ball valve in the “ <b>closed position</b> ”
3	Open air release valve on top of filter.
4	Set Frog Dial to <b>0</b> (Pack Removal)
5	Unscrew and remove the top of FROG Cyclor canister.
6	Remove Bac Pac and Mineral Reservoir.
7	<p>Replace with new FROG ® Mineral Reservoir. Be sure to line up the slot in the reservoir with the fin inside of the canister as shown below</p> <p><b>Figure 1</b></p>  <p>The diagram shows a cross-section of the Pool Frog Cyclor canister. At the top, there is a circular opening labeled 'SLOT IN POOL FROG MINERAL RESERVOIR'. Below this, inside the canister, there is a curved fin labeled 'FIN INSIDE OF POOL FROG CYCLER'. The fin is positioned to align with the slot in the reservoir above it.</p>
8	Lower Bac Pac into Mineral Reservoir until secure. Be sure to line up the small leg of the Bac Pac with the small opening in the Mineral Reservoir and the large leg with the large opening
9	<p>Replace cap by hand only. <b>DO NOT OVER TIGHTEN</b></p> <p><b>⚠ CAUTION DO NOT USE CAP TOOL TO TIGHTEN CAP.</b> Use for removal only.</p>
10	Set Frog Dial back to normal operating level.
11	Put the ball valve in the “ <b>open position</b> ”
12	Start pump to purge air from the system.
13	When steady stream of water comes from air release valve close the valve.

## Pool Setup & Maintenance Guide

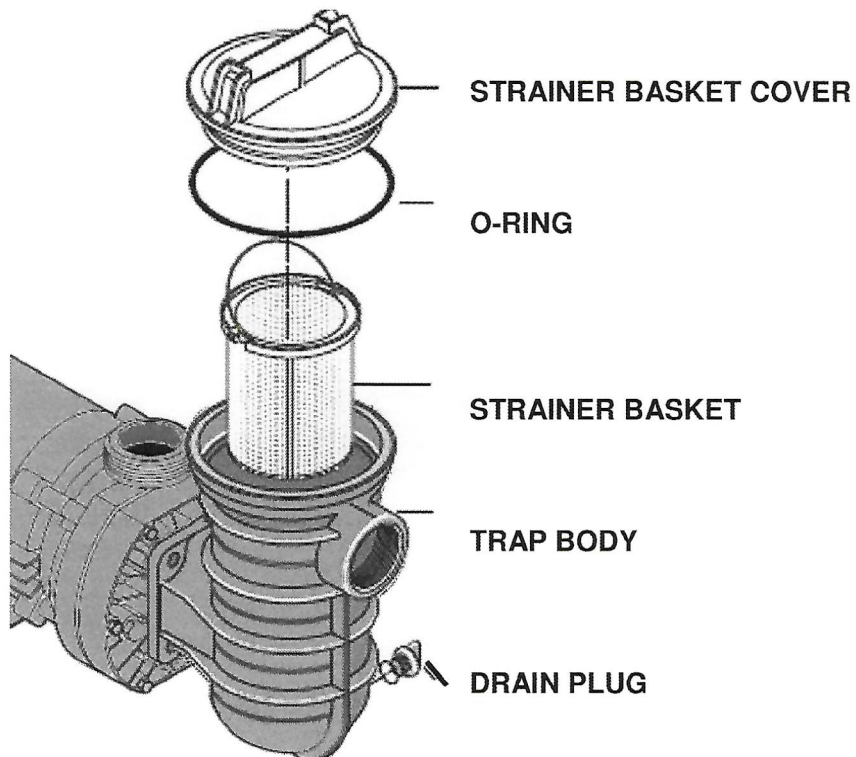
### Cleaning the Strainer Basket (pump)

#### Cleaning the Strainer Basket

Follow the steps below to check the strainer basket for debris. This should be checked once a week.

Step	Action
1	Shut off pump.
2	Make sure the ball valve is in the “ <b>closed position</b> ”.
3	Open air release valve on top of filter.
4	Unscrew strainer basket cover and remove.
5	Turn strainer basket ¼ turn to remove it.
6	Clean all debris out of strainer basket and check O-ring.
7	Replace and twist ¼ turn.
8	Replace Cover.
9	Make sure the ball valve is in the “ <b>open position</b> ”.
10	Start pump to purge air from the system.
11	When steady stream of water comes from air release valve close the valve.

Figure 2





## Pool Setup & Maintenance Guide

### Cleaning the Cartridge Filter

#### Cleaning the Cartridge Filter

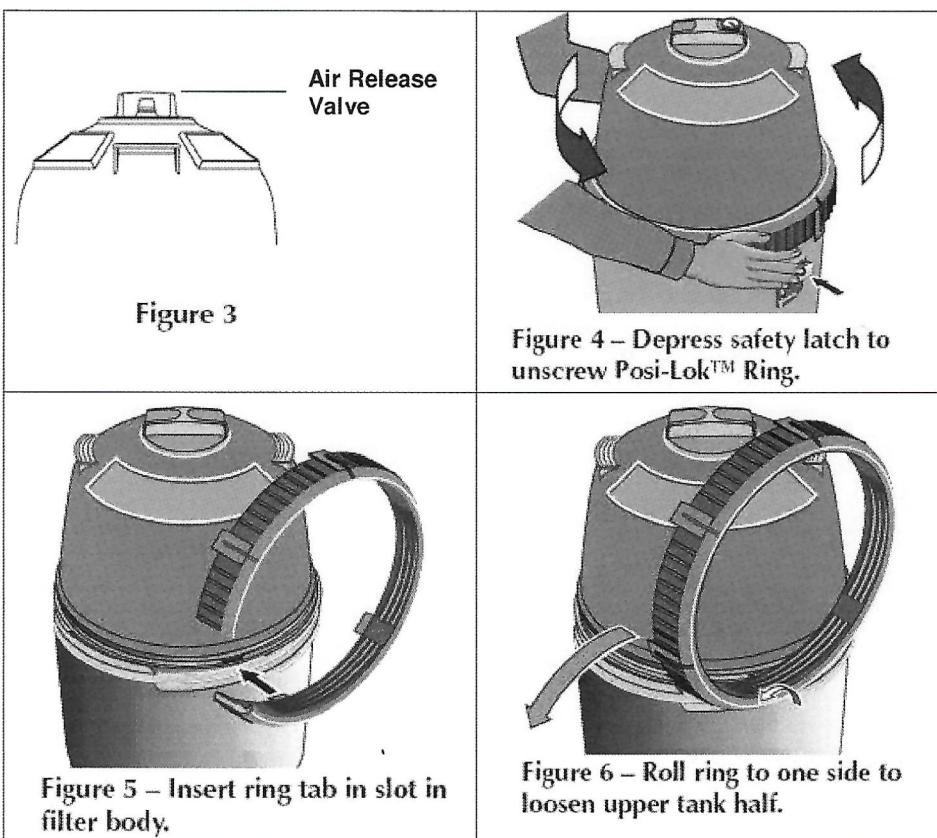
The first time you turn on your pump check the reading on the pressure gauge on the filter and write it down for future reference.

- This is your pool's normal operating pressure.

The filter module should be cleaned when the pressure gauge reading increases 10 PSI over the normal operating pressure

Step	Action
1	Turn off the pump.
2	Put the ball valve in the "closed position"
3	Open air release valve on top of filter. (see Fig 3 ) <b>NOTICE:</b> Open the air bleed valve and bleed all air from the filter each time the pump is stopped and restarted.
4	Remove the drain plug and drain all water from the filter.
5	Push button to release locking ring and unscrew. (see Fig 4 )
6	Use fin on ring to pry open top of filter. (see Fig 5 -6 )

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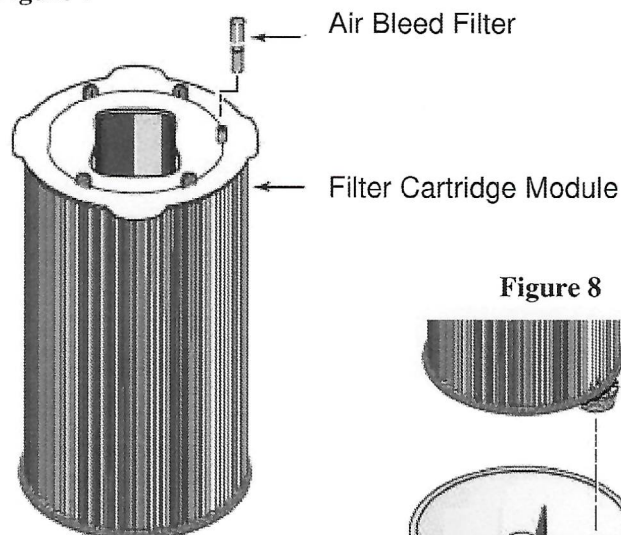
## Pool Setup & Maintenance Guide

### Cleaning the Cartridge Filter, Continued

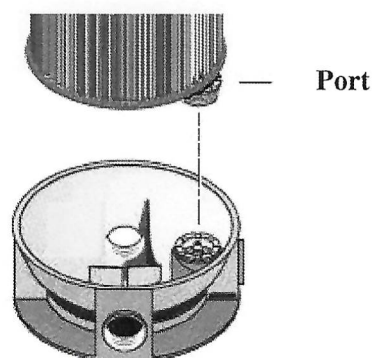
Step	Action
7	With a hose equipped with a soft flow nozzle, wash as much dirt as possible off of the cartridge module while it is still in the tank. <b>NOTICE:</b> DO NOT use solvents to clean the filter; solvents may damage plastic components in the system.
8	Allow tank to drain completely and flush foreign material from inside of tank.
9	Once inside of tank is clean, lift out the module and hose it down thoroughly. Spray the entire module surface. Allow module to drain completely.
10	Inspect the module, if necessary, repeat the washing operation. If the module is damaged, replace it.
11	Inspect and clean the air bleed filter at top of module. (see Fig 7)
12	Replace cartridge filter and making sure to line up port on the cartridge with the check valve. (see Fig 8)

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**Figure 7**



**Figure 8**



## Pool Setup & Maintenance Guide

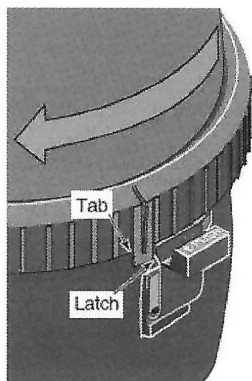
### Cleaning the Cartridge Filter, Continued

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13	Push down on the top of the filter to fully seat the upper tank shell.
14	Rotate the Posi-Lok™ ring <u>clockwise</u> until it “clicks” past the safety latch. (see Fig 9)
15	Put the ball valve in the “ <b>open position</b> ”
16	Start pump to purge air from the system.
17	When steady stream of water comes from air release valve close the valve.
18	Check the reading on the pressure gauge to ensure that your pressure has dropped to its normal levels

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Figure 9



**⚠ CAUTION** Lubricate O-ring only with the silicone grease provided or equivalent, as other lubricants may cause the ring to swell. DO NOT lubricate Posi-Lok™ ring or threads on lower tank shell as this may collect grit and make removal difficult.

**NOTICE** The ring may feel slightly loose the first time you are putting it on, but it will tighten up when pump is on and filter is under pressure.

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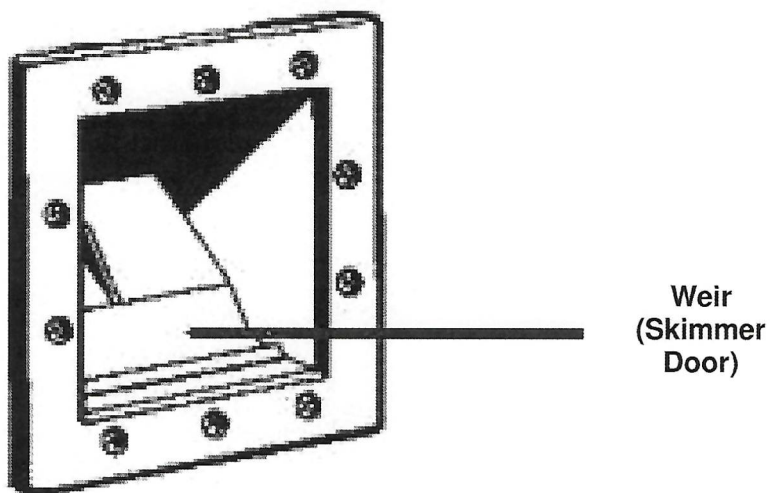
## Pool Setup & Maintenance Guide

### Cleaning the Skimmer Basket

#### Cleaning the Skimmer Basket

Follow the steps below to clean the skimmer basket. This should be done on a regular basis and as necessary.

Step	Action
1	Turn off the pump.
2	Gently pull the skimmer door forward and pull out the skimmer basket.
3	Shake out debris and spray with hose to clean.
4	Replace skimmer basket
5	Restart pump.





## Pool Setup & Maintenance Guide

### Vacuuming your pool

#### How to Vacuum your Pool

Your pool vacuum works very much like a household vacuum, but uses water instead of air. For this reason, care must be taken not to let air get in the system as this would weaken or halt the suction.

Step	Action
1	Clean the Pump Strainer, Filter Cartridge, and the Skimmer basket. (see previous instructions)
2	Gather the necessary materials: Vacuum head, Vacuum pole, Vacuum hose, Skim vac attachment.
3	Attach the vacuum head to the vacuum pole.
4	Attach the vacuum hose to the vacuum head
5	Turn off the Pump.
6	Put the ball valve in the “ <b>skimmer only position</b> ”
7	Remove the door from Skimmer.
8	Place Skim vac attachment in the skimmer over the basket
9	Turn on the Pump.
10	Submerge the vacuum head under the water and fill the hose by placing the open end of the hose in front of the water return valve.
11	When all the air is out of the hose, attach the end to the skim vac attachment, keeping the hose underwater so you don’t let any air into the hose. The vacuum is now primed and ready to clean.
12	<p>Press down firmly as you vacuum and move the head <u>slowly</u> across the bottom.</p> <p><b>NOTE</b> – While it may seem that vacuuming at a fast pace appears to do the job equally well, this actually creates waves which will lift dirt up and suspend it in the water. This dirt will eventually settle back down to the bottom.</p> <ul style="list-style-type: none"><li>• If the pool is very dirty and suction seems to decrease after vacuuming for a while, it could be a sign that the filter needs cleaning again</li></ul>
14	<p>After vacuuming is completed, turn off Pump and remove skim vac attachment from skimmer. Replace skimmer door.</p> <p><b>CAUTION</b> DO NOT pull the skim vac out of the skimmer with the pump turned on, this will cause damage to the skimmer.</p>
15	Clean the Pump Strainer and the Skimmer basket again.
16	Put the ball valve in the “ <b>Bottom Drain only position</b> ”
17	Turn on the Pump.
18	Let the pool run on bottom drain only for a few hours before returning it to the “ <b>open position</b> ”

## Pool Setup & Maintenance Guide

### How to Close your Pool (winterizing)

#### Pool Preparation

To begin the 'Kayak' pool winterizing procedure, follow these simple steps. Start with clean, clear water (vacuum if necessary). Make sure there are no liner leaks!

Step	Action
1	Remove in-pool ladder by loosening the set screws in the ladder flanges (cups on deck).
2	<p>Remove the "eye-ball" and "sleeve" from the return port. This unscrew counterclockwise (see below)</p> <p>If you have a jet air attachment or fountain, you will remove this instead of the eyeball)</p> <div data-bbox="553 814 1344 1213" data-label="Image"> <p>The image shows three white plastic components against a blue background. From left to right: an 'eye-ball' (a circular cap with a central hole and a flange), a 'sleeve' (a short, hollow tube with a flange on one end), and a 'return port' (a larger circular cap with a central hole and a flange). Below the image, the labels 'EYE-BALL', 'SLEEVE', and 'RETURN PORT' are printed in bold.</p> </div> <p style="text-align: center;"><b>EYE-BALL                      SLEEVE                      RETURN PORT</b></p>
3	Remove skimmer basket.
4	Clean vinyl with Tile & Vinyl Cleaner.
5	Add winter chemicals. Usually shock and winter algaecide.
6	<p>Continue to run pool filter to thoroughly dissolve chemicals for 6-8 hours.</p> <p><b>⚠ CAUTION</b> Never mix chemicals.</p> <ul style="list-style-type: none"> <li>• If chemicals come in contact with skin, flush with water immediately.</li> <li>• Refer to chemical container for correct application and safety procedures.</li> <li>• <b>DO NOT</b> add chemicals through the skimmer.</li> </ul>

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## Pool Setup & Maintenance Guide

### How to Close your Pool (winterizing), Continued

#### Winterizing the Pump & Cartridge Filter

Follow the steps below to winterize the Pump & Cartridge Filter.  
**NEVER** allow moisture to freeze in the pool pump or pool filter.

Step	Action				
1	Turn off the pump.				
2	Put the ball valve in the “closed position”				
3	Open air release valve on top of filter.				
4	Remove the drain plug from pump (see diag. pg 7) and drain plug from filter (see diag. pg 8) and allow all water to drain from both				
5	<u>If your pool is recessed</u> - use a low pressure (below 5 PSI), high volume blower to purge the air from the skimmer and return hoses.				
6	<div>Drain the system piping. Make sure all the water is drained from the pump &amp; filter.<ul style="list-style-type: none"><li>• Gravity drain system as far as possible.</li><li>• Loosen the union nuts (if used) to drain all water from the filter interior. Leave these nuts loose until the system is restarted.</li></ul></div> <div><b>NOTICE</b> – The filter outlet piping will not empty through the filter drain. Make sure that the outlet piping has a separate drain for winterizing.</div> <table><tr><th>If</th><th>Then</th></tr><tr><td>Your pool is recessed (below the ground)</td><td><div>You will not be able to gravity drain the lines:<ul style="list-style-type: none"><li>• Using a wet/dry vacuum cleaner that is set to “blow” – blow air into the skimmer hose until air bubbles are coming from the skimmer.</li><li>• While air is blowing , another person will need to be in the pool to attach the Aquador (see page 26)</li><li>• Repeat above steps for return hose/return plug.</li></ul></div></td></tr></table>	If	Then	Your pool is recessed (below the ground)	<div>You will not be able to gravity drain the lines:<ul style="list-style-type: none"><li>• Using a wet/dry vacuum cleaner that is set to “blow” – blow air into the skimmer hose until air bubbles are coming from the skimmer.</li><li>• While air is blowing , another person will need to be in the pool to attach the Aquador (see page 26)</li><li>• Repeat above steps for return hose/return plug.</li></ul></div>
If	Then				
Your pool is recessed (below the ground)	<div>You will not be able to gravity drain the lines:<ul style="list-style-type: none"><li>• Using a wet/dry vacuum cleaner that is set to “blow” – blow air into the skimmer hose until air bubbles are coming from the skimmer.</li><li>• While air is blowing , another person will need to be in the pool to attach the Aquador (see page 26)</li><li>• Repeat above steps for return hose/return plug.</li></ul></div>				
7	<div>Disassemble the filter (see page 8).<ul style="list-style-type: none"><li>• If the filter is equipped with an optional internal spring check valve (in the tank outlet), manually open the check valve to allow any water trapped in the tank to drain.</li></ul></div>				
8	<div>Remove the filter cartridge module and store it in a warm, dry area.<ul style="list-style-type: none"><li>• Cover the filter with plastic or tarpaulin to prevent water entrance and freezing.</li><li>• Protect areas which retain water with non-toxic propylene glycol antifreeze (“RV antifreeze”).</li></ul></div>				
9	Store drain plugs, eyeball, sleeve, and any other small parts in the pump strainer basket.				

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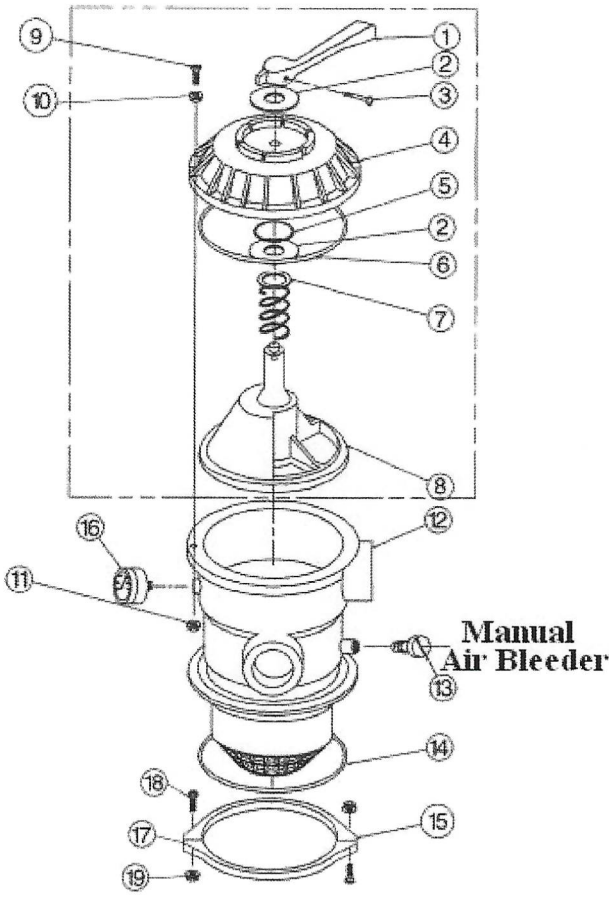
## Pool Setup & Maintenance Guide

### How to Close your Pool (winterizing), Continued

#### Winterizing the Pump & Sand Filter

Follow the steps below to winterize the Pump & Sand Filter.  
**NEVER** allow moisture to freeze in the pool pump or pool filter.

Step	Action
1	Turn off the pump.
2	Put the ball valve in the “closed position”
3	Open manual air bleeder screw on side of valve assembly, then turn valve switch to the “Winterize” position.



*Continued on next page*



## Pool Setup & Maintenance Guide

### How to Close your Pool (winterizing), Continued

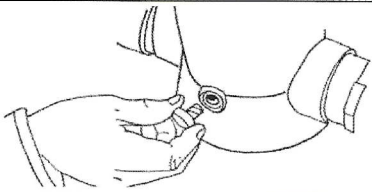
Step	Action						
4	<p>Remove the drain plug from pump (see diag. pg 7) and drain plug from filter (see diag. pg 9) and allow all water to drain from both.</p> <p><b>NOTICE</b> - Only remove drain port cap, NOT the entire fitting for draining water from filter. Removing the entire fitting will allow sand to drain also. The filter will drain <b>slowly</b>. Leave the drain port cap off and store it during the time the system is shut down.</p>						
5	<p><u>If your pool is recessed or inground</u> - use a low pressure (below 5 PSI), high volume blower to purge the air from the skimmer and return hoses.</p>						
6	<p>Drain the system piping. Make sure all the water is drained from the pump &amp; filter.</p> <ul style="list-style-type: none"> <li>• Gravity-drain system as far as possible.</li> <li>• Loosen the union nuts (if used) to drain all water from the filter interior. Leave these nuts loose until the system is restarted.</li> </ul> <p><b>NOTICE</b> – The filter outlet piping will not empty through the filter drain. Make sure that the outlet piping has a separate drain for winterizing.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">If</th><th style="text-align: center;">Then</th></tr> </thead> <tbody> <tr> <td style="vertical-align: top;">Your pool is recessed/inground (below the ground)</td><td> <p>You will not be able to gravity drain the lines:</p> <ul style="list-style-type: none"> <li>• Using a wet/dry vacuum cleaner that is set to “blow” – blow air into the skimmer hose until air bubbles are coming from the skimmer.</li> <li>• While air is blowing , another person will need to be in the pool to attach the Aquador (see page 31)</li> <li>• Repeat above steps for return hose/return plug.</li> </ul> </td></tr> <tr> <td style="vertical-align: top;">Pump can't be drained</td><td>Non-toxic propylene glycol antifreeze will protect water-retaining areas up to -50°F.</td></tr> </tbody> </table>	If	Then	Your pool is recessed/inground (below the ground)	<p>You will not be able to gravity drain the lines:</p> <ul style="list-style-type: none"> <li>• Using a wet/dry vacuum cleaner that is set to “blow” – blow air into the skimmer hose until air bubbles are coming from the skimmer.</li> <li>• While air is blowing , another person will need to be in the pool to attach the Aquador (see page 31)</li> <li>• Repeat above steps for return hose/return plug.</li> </ul>	Pump can't be drained	Non-toxic propylene glycol antifreeze will protect water-retaining areas up to -50°F.
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Pump can't be drained	Non-toxic propylene glycol antifreeze will protect water-retaining areas up to -50°F.						
7	Disassemble the filter.						
8	<p>Remove the filter sand module with ARV attachment and store it in a warm, dry, weather-safe area.</p> <ul style="list-style-type: none"> <li>• Cover the filter with plastic or tarpaulin to prevent water entrance and freezing if left outdoors. <b>DO NOT</b> wrap pump motor in plastic. Condensation could form inside, ruining it.</li> <li>• Protect areas which retain water with non-toxic propylene glycol antifreeze (“RV antifreeze”).</li> </ul> <p><b>NOTICE</b> - Do not use anti-freeze solutions except Propylene Glycol; as other anti-freeze is highly toxic and will damage the pump.</p>						
9	Store drain plugs, eyeball, sleeve, and any other small parts in the pump strainer basket.						

## Pool Setup & Maintenance Guide

### How to Close your Pool (winterizing), Continued

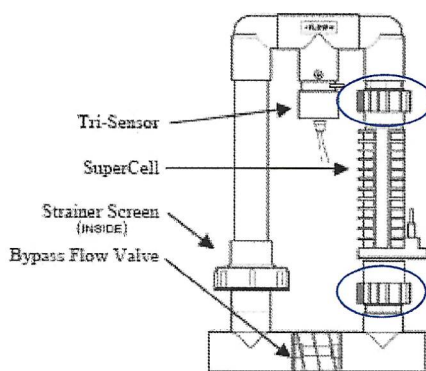
#### Winterizing the FROG Cycler

Follow the steps below to winterize the FROG Cycler.

Step	Action
1	Turn dial to Pac Removal and remove cap.
2	 Unscrew knob in the back of POOL FROG® Cycler. Allow all water to drain.
3	If FROG® Bac Pac still contains chlorine, wrap in plastic bag and store in shed or cool well-ventilated location away from children, pets, cars, motorcycles or anything metal that can rust, pit, etc. Make sure POOL FROG® Bac Pac is away from open flame.
4	Remove the FROG® Mineral Reservoir and discard in trash. Even if you hear spent minerals inside, it is no longer effective.
5	Replace the cap and knob loosely.

#### Winterizing the Salt System

Follow the steps below to winterize the Salt System

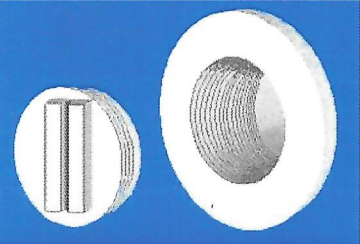



Step	Action
1	Unscrew the Supercell from the top and bottom (see diag)
2	Remove the Supercell and store it somewhere safe and dry for the winter.
3	Make sure there is no water in the manifold. <b>IMPORTANT</b> – This step is very important to ensure that you do not have ice damage over the winter from expansion and contraction.

## Pool Setup & Maintenance Guide

### Complete Winterizing

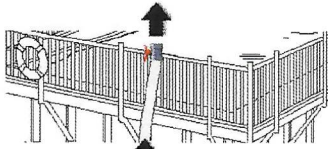
Follow the steps below to complete the winterization process.

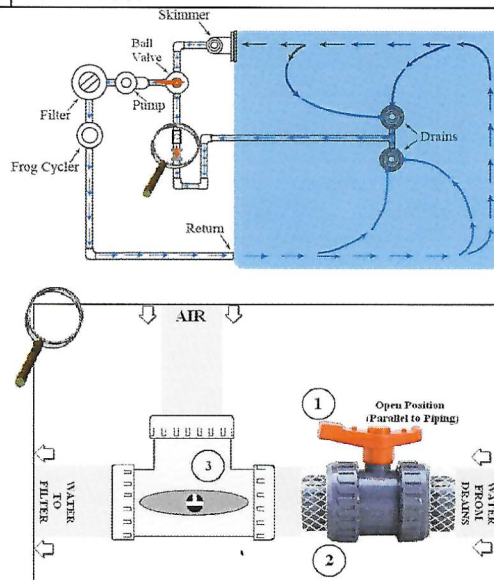
Step	Action
1	<div></div> <p>Install the Winter return plug in to the Return port.</p> <p><b>NOTICE</b> Make sure you have removed the sleeve prior to installing the winter plug.</p>
2	<div></div> <p>Install the Aquador as shown</p> <p><b>NOTICE</b> The Aquador will fit very tightly and may take some effort to put on. You must make sure it is all the way on so that water does not leak from your skimmer.</p>

*Continued on next page*

## Pool Setup & Maintenance Guide

### How to Close your Pool (winterizing), Continued

Step	Action
3	<p>Disconnect the hose from the ball valve to the skimmer and return hose from the Frog and let hang. All the water should drain from these lines.</p> <p><b>⚠ CAUTION</b> The Ball Valve should be in the closed</p>
4	<p>Turn the shutoff valve (1 below) on the PVC shutoff switch (2 below) so that is in the 'closed' position. Disconnect the PVC shutoff switch (2 below) from the ARV (3 below).</p> <p><b>⚠ CAUTION</b> DO NOT cap this line. This allows ice to expand as needed.</p> <p><b>⚠ CAUTION</b> DO NOT cap the PVC air relief tube leading into the ARV.</p> <div style="text-align: center;">  <p>PVC Pipe from Bottom Drain</p> </div>
5	<p>Secure the hose that comes from the floor drain to a deck support so that it points upward and the end is higher than the water level.</p> <p><b>⚠ CAUTION</b> DO NOT cap this line. This allows ice to expand as needed.</p>

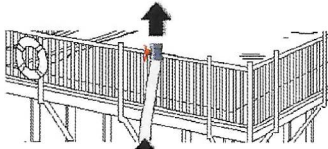


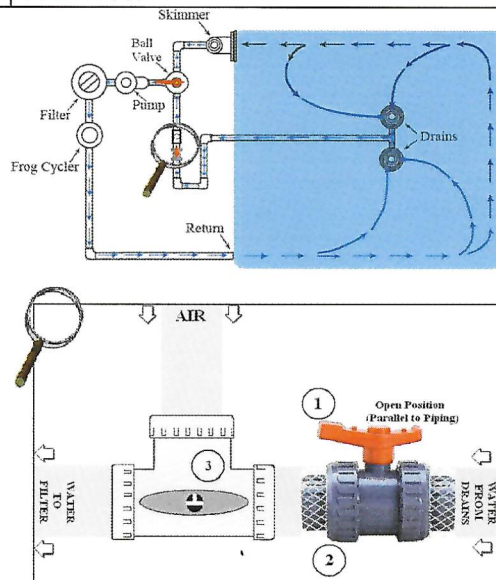
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## Pool Setup & Maintenance Guide

### How to Close your Pool (winterizing), Continued

Step	Action
3	<p>Disconnect the hose from the ball valve to the skimmer and return hose from the Frog and let hang. All the water should drain from these lines.</p> <p><b>⚠ CAUTION</b> The Ball Valve should be in the closed</p>
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Continued on next page

## Pool Setup & Maintenance Guide

### How to Close your Pool (winterizing), Continued

#### Put on the Winter Cover

Follow the steps below to install your winter cover.

**NOTICE** – If using a SAFETY COVER follow the instructions provided from the manufacturer.

Step	Action
1	Place the box containing the winter cover at either end of the pool. Open the box and place the cover on the deck. Roll the cover out along the deck.
2	Loosely tie down the 2 corners of the cover to the corner fence posts or deck support. Make sure the proper side of the cover will be facing up when you pull the other 2 corners across swim area.
3	Using two people on opposite sides of the cover, take the leading edge of the cover in hand and pull it tightly between you. Walk the cover to the opposite end of the pool – being careful not to dip the leading edge in the water or catch it on any protruding objects.
4	Loosely tie down the 2 remaining corners.
5	Allow roughly 12-14” inches of pool cover to lay on the deck, with the remainder draped into and across the pool where it is supported by the underlying water.
6	Thread the water sleeves through the loops of the cover with the filler valve facing up.
7	Once all water sleeves are in place, fill the water sleeves approximately half full.  <b>⚠ CAUTION DO NOT fill water sleeves more than halfway</b> This allows more than sufficient holding power while leaving room for expansion as the water freezes during the winter.
8	To secure the winter cover, tie one end of the rope to the grommets or tarp tabs of the cover every four feet and the other end of the rope to the deck supports.

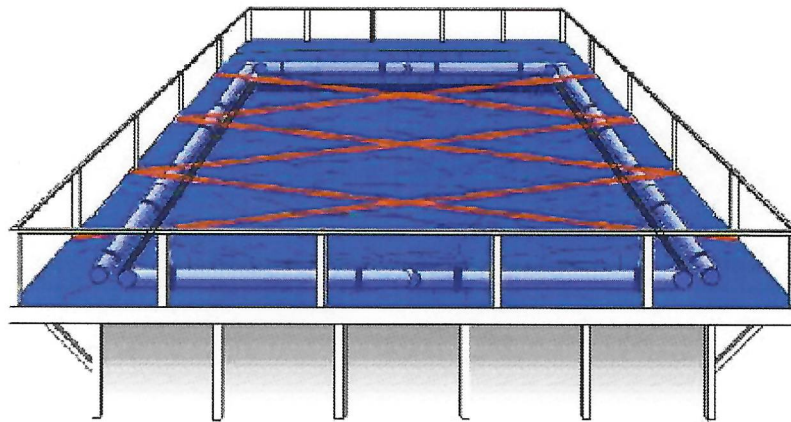
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## Pool Setup & Maintenance Guide

### How to Close your Pool (winterizing), Continued

#### Put on the Winter Cover (continued)

Step	Action
8	To protect the winter cover from high winds, use rope to lace back and forth across the pool as shown by the heavy rope lines in the diagram below.
9	Readjust the corner tie downs to make them tight



**⚠ WARNING** – DO NOT ALLOW LARGE QUANTITIES OF WATER, SNOW AND ICE TO BUILD UP ON THE SURFACE OF YOUR POOL COVER.

2" inches or less of water on your cover is permissible. Any more than this should be removed as too much water on the pool cover will cause excessive strain on the grommets and/or tarp tabs.

Excess weight will displace the water in the pool through the atmospheric release valve or by overflowing over the sides of the pool itself. If you are unable to remove the excess water, loosen (or cut if necessary) the ropes and add new rope. This may result in some water loss through displacement but it will protect your cover and your pool until you can remove the excess water.

**⚠ CAUTION** – Failure to follow exact winterizing instructions could lead to irreparable damage to the your pool liner from falling ice in the spring.

## Pool Setup & Maintenance Guide

### How to Open your Pool (Spring opening)

#### Removing the Cover

Follow the steps below to remove the winter cover.

Step	Action
1	Prepare the winter cover for removal by clearing off all debris and water using a leaf skimmer and a cover pump.
2	Drain and remove the water sleeves and any tie down ropes.
3	Remove the cover, clean and dry it. Store cover for next season.

#### Reconnecting the Filter

Follow the steps below to open your pool at the beginning of each season.

Step	Action
1	Confirm that your pump shaft turns freely and connect pump to the system base.
2	Make sure to remove all parts stored in the pump strainer basket during winter storage and reinstall those stored parts.
3	Connect the pump to the filter tank.
4	Make sure O-rings on the ball valve are properly seated and in good operating condition.
5	Place the ball valve in the “ <b>skimmer only</b> ” position and attach it to the hose leading from the floor drains. <b>IMPORTANT:</b> Keep the hose tied up until the ball valve is securely attached to the hose.
6	Untie floor drain hose and bring the ball valve down and reattach it to the system base.
7	Reconnect the skimmer line to the ball valve.
8	Reconnect the ball valve to the pump
9	Connect the FROG to the return port of the Filter system.
10	Connect the return line to the FROG
11	Turn the ball valve to the “ <b>closed position</b> ”.
12	Remove the Aquador and the return plug. Replace sleeve and eyeball in return port.
13	Replace any displaced water so that water level is 3” – 4” above the bottom of the skimmer.
14	Install the ladder flanges. When the pool is full, install your in-pool ladder.
15	Place the basket inside skimmer and reattach the skimmer door.
16	The filter system is now reconnected and ready for start-up. <b>Note:</b> Sand Filter must be backwashed after initial setup



## Pool Setup & Maintenance Guide

### How to Open your Pool (Spring opening), Continued

#### Start up

If you have a FROG® you will need a new Mineral Reservoir.

Step	Action
1	Open air release valve on top of filter.
2	Put the ball valve in the “ <b>open position</b> ”
3	Start pump to purge air from the system.
4	When steady stream of water comes from air release valve close the valve.
5	Check the reading on the pressure gauge to ensure that your pressure has gone to its normal levels.
6	Place your hand in front of the return port inside your pool to confirm water is flowing into the pool. Your pool is now filtering water normally.
7	Set Frog dial back to normal operating level.
8	Shock the pool with chlorine to rid the water of all contaminants.  <b>⚠ CAUTION DO NOT ADD SHOCK IN OR NEAR THE SKIMMER OR INTO THE FROG CYCLER DIRECTLY.</b> This could cause damage to the equipment, discolor your pool surface and could risk a potential explosion.

## Pool Setup & Maintenance Guide

### Troubleshooting

Problem	Possible Solution
<ul style="list-style-type: none"><li>• If the pump is noisy or visibly leaking water.</li></ul>	<ul style="list-style-type: none"><li>• Consult “<b>Air in the System</b>” section.</li></ul>
<ul style="list-style-type: none"><li>• Motor will not run</li></ul>	<ul style="list-style-type: none"><li>• Check the fuse or circuit breaker for an open circuit. If the circuit is equipped with a Ground Fault Interrupter, check the reset switch and then inspect the wiring connections for any short circuits or loose contact wires.</li><li>• Your pump motor is equipped with Automatic Thermal Overload protection. The motor will automatically shut off before heat damage can occur, under normal conditions, due to an improper operating condition. The motor will restart when a safe heat level is reached.</li></ul>
<ul style="list-style-type: none"><li>• Motor hums but will not run</li></ul>	<ul style="list-style-type: none"><li>• Stones or debris may fall in to the housing below the strainer basket. This debris may have lodged between the impeller and the pump housing jamming the whole pump and motor assembly.</li></ul>
<ul style="list-style-type: none"><li>• Noisy pump</li></ul>	<ul style="list-style-type: none"><li>• Consult “<b>Air in the System</b>” section.</li><li>• Blockage or restriction in suction or discharge lines.</li><li>• Vibration due to improper mounting or loosening of bolts.</li><li>• Foreign matter (such as a small stone) lodged between the impeller and the pump housing jamming the whole pump and motor assembly.</li></ul>
<ul style="list-style-type: none"><li>• Low water flow returning to pool</li></ul>	<ul style="list-style-type: none"><li>• Clean and rinse filter (see <b>Cleaning the Filter</b> section)</li><li>• Consult “<b>Air in the System</b>” section.</li><li>• Check for restrictions in baskets or intake lines.</li></ul>
<ul style="list-style-type: none"><li>• Vacuum not working</li></ul>	<ul style="list-style-type: none"><li>• Consult “<b>Air in the System</b>” section.</li><li>• Inspect the vacuum hose for breaks or splits which may cause air leaks. Also check that the vacuum head or hose isn’t blocked or kinked.</li><li>• Make sure the ball valve is set properly</li></ul>

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## Pool Setup & Maintenance Guide

### Troubleshooting, Continued

<ul style="list-style-type: none"> <li>• Air in the system</li> </ul>	<ul style="list-style-type: none"> <li>• Check around the skimmer. If vacuum is hooked up, disengage vacuum and see if problem clears. If so look for improper seating of skim-vac attachment (vacuum plate) and elbow, cracked or blocked hose, or vacuum head.</li> <li>• Check that water level is at proper level (1 inch below top of skimmer opening)</li> <li>• Clean the skimmer basket. Also, after the pump is turned off and restarted, the skimmer basket may occasionally become unseated and cause air to mix with the water.</li> <li>• Check the pump for a clogged strainer basket. If air bubbles are visible through the cover, problem is at the strainer housing or before it.</li> <li>• Check the strainer cover O-ring. Sand, dirt or other debris may be allowing air to enter. If this is the case, clean off O-ring and coat with O-ring lube, or replace O-ring if necessary.</li> <li>• Check hose connections for looseness or dripping water.</li> <li>• Check the ball valve for proper settings and leaks.</li> <li>• Changing the ball valve from “skimmer only” to “bottom drain only” may provide a clue to where the problem is.</li> <li>• Check for leaks around the multi-port valve, the base, the fittings and all hoses.</li> </ul>
<ul style="list-style-type: none"> <li>• Liner coming out of track</li> </ul>	<p style="text-align: center;"><b>Complete Service Request on website</b></p>
<ul style="list-style-type: none"> <li>• Pool leaks</li> </ul>	<p><b>NOTE</b> – Normal daily water loss through evaporation can range from ¼” to ½” inch. Swimmers will also splash out water. Please take this into consideration when determining whether you have a leak or not.</p> <ul style="list-style-type: none"> <li>• <b>PLUMBING LEAKS</b> – will usually result in air being drawn into the system. Consult “<b>Air in the System</b>” section.</li> <li>• <b>LINER LEAKS</b> – are usually indicated by a wet spot on the ground outside the pool in the general location of the leak</li> </ul>