

# CRYSTAL CLEAR POOLS

*Pools, Spas, and Accessories!*

911 E. MacArthur Street . Suite 100 . Shawnee, OK 74804

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## How To Open An Inground Pool & Handbook

### **FILLING**

Water Level - 1. Fill your pool prior to opening. (This will speed up the opening process).

### **“SOLID COVER”**

1. Remove all heavy debris with a deep leaf net.
2. Remove water from cover with a cover pump (checking periodically so as not to burn up pump due to debris blockage).
3. Using pool brush, clean, rinse, allow to dry, fold, roll & store. (keep out of reach of mice).

### **“MESH COVER”**

1. Using pool brush, clean, rinse, allow to dry, fold, roll & store. (keep out of reach of mice).

### **CONDITION**

If water is extremely cloudy to zero visibility, pool must be flocced. (Refer to floc instructions).

### **EQUIPMENT**

Pump - 1. Install plugs (usually 2).

2. Always replace the pump lid O-ring or gasket & lubricate with Magic Lube. Because if you don't, you will shorten the life of your pump motor as a result of laboring each time you start it between filtration cycles, backwashing & rinsing, and cleaning the pump basket. After each season being exposed to extreme heat & cold conditions, chlorine or baquacil plus water chemistry fluctuations take a toll on the elasticity of
3. Inspect basket and lid for cracks.
4. Prime pump with water before starting pump.

Sand Filter- 1. Install plug (usually 1).

2. Check pressure gauge for stuck needle. If so replace.
3. Note: Sand must be changed each season and chemically cleaned every 60 days with Filter Cleaner. This is a must for proper filtration and circulation because over time your sand will become gummy from tanning lotion, cosmetics, antiperspirants, plant saps and body oil and it will calcify from scale deposits due to fluctuations in pH & Alkalinity. Hazy water, algae growth and poor circulation will occur. Filter Cleaner is a degreaser & descaler that breaks down oils & scale deposits that cause poor filtration.

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- D.E. Filter- 1. Clean grids & tank with Filter Cleaner. **DO NOT USE MURIATIC ACID!!!**  
2. Install plugs.  
3. Check pressure gauge for stuck needle. If so replace.

- Cartridge Filter - 1. Clean cartridges with muriatic acid and then every 4 weeks).  
2. Install plugs.  
3. Check pressure gauge for stuck needle. If so replace.

- Chlorinator - 1. Flush and clean out any old chemicals.  
2. Install plugs and or reconnect hoses.  
3. Always replace lid O-ring and lubricate with Magic Lube.

Booster Pump - Install plug and or reconnect hoses.

- Heater - 1. Reconnect pressure switch located inside door.  
2. Install freeze plugs (if plugs & valves are rusted always replace immediately or you will strip threads or heat exchange).

- Timers - 1. Make sure breakers are on to supply power to timers then set timers to correct time.  
2. Circulating pump timer- position the "on" tripper to 8:00 AM and the "off" tripper to 8:00 PM. (Circulating pump must run 12 hrs minium per day) or 24 hrs a day if you like).  
3. Booster pump timer - position the "on" tripper to 8:30 AM and the "off" tripper to 11:30 AM. (booster pump to run no more than 3 hrs at one time). Important:

***Do not run booster pump without running circulating pump at the same time!!!***

Skimmer - Remove gizzmo and or rubber plugs.

Return Lines - Remove all rubber plugs.

Pool Sweep Line - Remove rubber plug.

Slide - Connect hoses and check for cracked and broken tubing and fittings.

Deck - Scrub and hose off deck using a 10% chlorine solution consisting of 1 part liquid chlorine to 1 part water. This will brighten your cement and give it a fresh new look.

## CLEANING & TREATING

- Water Level - 1. If normal to light dirt and algae exist, you will be vacuuming in filter so run water level up midway of skimmer mouth. If heavy dirt and algae exist, you will need to vacuum on waste to keep from sending it back to the pool, so run water level well over skimmer mouth in advance to make up for water loss.

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- Vacuuming -
1. Hook up hose, vacuum head, vacuum plate and pole (make sure swivel end of hose is connected to vacuum head or it will suck air). Note: Never vacuum without skimmer basket and skimmer plate or you will stop up plumbing.
  2. Prime vac hose by slowly forcing the pole and head in the water working your way to the opposite end of the hose with attached vac plate. Otherwise all of that air left in hose will make its way to the pump causing you to lose prime resulting in strain on motor plus having to wait a long time before vacuuming.
  3. Set skimmer valve wide open & drain valve 1/2 to 3/4 closed for best suction.
  4. Vacuum steps, wall then floor in this order since debris will naturally settle.
  5. After vacuuming, backwash & rinse filter thoroughly.

### Backwashing & Rinsing Instructions

1. Turn off pump.
2. Turn multiport valve handle clockwise to backwash position.
3. Turn pump on & backwash for 1 minute or until discharge water is clear.
4. Turn off pump.
5. Turn multiport valve handle clockwise to rinse position.
6. Turn pump on and rinse for 30 seconds or until discharge water is clear.
7. Turn pump off.
8. Turn multiport handle clockwise to filter position.
9. Turn pump on and you're ready to filter.

***IMPORTANT: NEVER BACKWASH & RINSE WHILE POOL SWEEP IS RUNNING!!  
YOU WILL BURN UP BOOSTER PUMP!!!***

- When To Backwash -
1. Once weekly.
  2. After vacuuming (and during vacuuming when pressure exceeds 15 lbs to 20 lbs).
  3. When water is hazy or cloudy.
  4. With heater when pressure exceeds 17 lbs to 20 lbs and without heater when pressure exceeds 12 lbs to 15 lbs.

- Water Testing -
1. Test water then treat as per instruction (never take water sample from pool water surface or near water hose while filling).
  2. Always replace test strips and test reagents at the start of every season because they have no shelf life. Otherwise you will get false readings.

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- Treating -
1. Always add chemicals while pump is running.
  2. Never pour acid & algaecides in skimmers. acid will damage pump internals and algaecides will gum up filters in concentrated form plus cause foaming.
  3. Always treat a pool in the following order. Balance, Stabilize, Sanitize, Shock.

- Brushing -
1. Brush walls, floor & steps toward drain just after adding chemicals for the following reasons: (A.) To break loose stuck on dirt & algae that vacuuming didn't get. (B.) Chemicals can work better and faster to eliminate algae when brushed loose than left on surface. (C.) To help mix and dissolve any chemical that may settle to bottom resulting in damage to plaster finish, vinyl and fiberglass.

### **BALANCE WATER IMPORTANT-YOU MUST BALANCE WATER IN THIS ORDER!!**

- Alkalinity- 100-150ppm
- a. if low, add Alkalinity Increaser per instructions.
  - b. if high, add alkalinity/pH decriaser or muriatic acid per instructions.
- Note: muriatic acid used in small amounts but frequently will lower alkalinity.*

- pH -7.2 to 7.8ppm
- a. if low, add pH increaser per instructions.
  - b. if high, add pH/alkalinity decriaser or muriatic acid per instructions.

- Calcium Hardness - **200-275ppm on plaster pools, 175-225ppm in vinyl & fiberglass pools.**
- a. if low, add Hardness Treatment per instructions.
  - b. if high, add TSP (trisodium phosphate) per instructions or partially drain pool and add fresh water. If source water calcium hardness level is above the recommended range then follow up with a stain & scale inhibitor. Initial dosage 1 qt per 10,000 gal then 4oz to 6oz per 10,000 gal weekly.

- Copper - 0ppm If present, use metal out. 1 quart per 10,000 gal (Never pour in skimmer).

- Iron - 0ppm If present, use metal out. 1 quart per 10,000 gal (Never pour in skimmer).

### **STABILIZATION NOTE: STABILIZER APPLIES TO CHLORINE POOLS ONLY!**

- Stabilizer - 25-40ppm
- a. if low, add Stabilizer at a rate of 2.5 lbs per 10,000 gallons.
  - b. if high, partially drain pool and dilute with fresh water. Otherwise, your alkalinity & pH readings will be false and acidic water and a higher chlorine demand will result.

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### **SANITIZERS & OXIDIZERS**

Shock Treatment - When pH is 7.4-7.6ppm, alkalinity 125-150ppm, calcium hardness 200-275ppm, stabilizer 25-50

Shock 1lb. of granular chlorine per 10,000 gallons of water repeat after 24 hours if needed.

Chlorine - 1.0-2.0ppm

- a. if low, add ClearView Insta-Clor Shock 1 lb per 20,000 gal and fill chlorinator/float feeder with 3" Chlorine Tablets.

*Note: When using a cal-hypo (calcium hypochlorite) shock, predissolve and add through skimmer.*

- b. if high, turn off auto chlorinator or remove float feeder for a while.

Bromine - 3.0-5.0ppm

Shock (granular bromine) to raise chlorine level, to maintain 3.0-5.0ppm fill automatic chlorinator or brominator with bromine tablets.

Biguanide - 30-50ppm (BAQUACIL, clear comfort, softswim, aqua free, which are sanitizers)

- a. to raise biguanide level add 1/2 gallon of BAQUACIL SANITIZER AND ALGASTAT per 10,000 gallons initial dose then 1 pint (16oz) per 10,000 gallons weekly .
- b. To shock add 1 gallon of BAQUACIL SHOCK AND OXIDIZER per 10,000 gallons at start up then 1 gallon per 10,000 gallons monthly.

***Always add your shock before your initial addition of sanitizer.***

Algaecide - Start-up initial dosage 1 qt per 10,000 gal, 6oz. to 8oz. per 10,000 gal weekly.  
Clarifier - Start-up initial dosage 1 qt per 10,000 gal, 6oz. to 8oz. per 10,000 gal weekly.  
Scale & Metal Control - Start-up initial dosage 1qt per 10,000 gal, 16oz. per 10,000 gal monthly.  
Natural Enzyme- Start-up initial dosage 1 qt per 10,000 gal, 4oz to 6oz per 10,000 gal weekly.

### **TILE or VINYL**

- Water line - 1. Remove scum line with Tile & Vinyl Cleaner. It is a good idea to clean & remove any algae & bacteria from your ladders, handrails & pool cleaners before installation, so as not to contaminate to your pool water.
2. Drop one Scumball in skimmer to collect suntan lotion, tree sap, pollen, make-up, hair spray and other oils. *Note: Scumballs are highly recommended for Baquacil, Aqua Free, SoftSwim and Clear Comfort sanitized pools because of a by-product that produces a black greasy scum.*

***Note: Keeping the return jets pointed in a clockwise or counter clockwise position and pointing slightly up will greatly reduce scum ring at the water line.***

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### **FILTRATION**

Run pump and filter around the clock backwashing and rinsing 3 times daily until Crystal Clear then resume normal circulation and filtration. (8 to 12 hours minimum daily.)

### **WATER LEVEL**

Maintain water level midway of skimmer mouth. If water level is too low, pump will draw air causing damage. If water level is too, high skimmer will not draw surface debris.

### **RETURN JET DIRECTION**

Jets should be set either clockwise or counter clockwise and slightly pointing up to move water and surface debris toward skimmer for best performance and reduce scum line resulting in less vacuuming and lower maintenance, and your pool will stay cleaner longer.

### **AUTOMATIC POOL CLEANERS** (Polaris, Hayward, Letro Legend)

Check the wall fitting screener for any tears or obstructions. (This will eliminate damage to your booster pump and head unit). *REPLACE WALL FITTING O-RING OR YOU WILL EXPERIENCE A LOSS OF WATER PRESSURE!!!*

If you have questions you can call us during normal business hours.

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**Don't forget to spread the word, WE PRICE MATCH WalMart and Amazon prices and have an equal or better product!**

***We thank you for your support of your local store !!!!***