

Ultimate Low Maintenance Pool Part 1

Paradigm shift has occurred...

- 1) Existing Paradigms
 - a. Old Paradigm...
Shell + Shape + Equipment = Pool
 - b. New Paradigm...
Needs Analysis + Integrated Design + Material Blend + Balanced Components +
Engineered Excellence = Customer Confidence and Distinctive Superiority
- 2) Paradigm Components
 - a. Art
 - b. Technology
 - c. Hydraulics
 - d. Commodity
 - e. Landscape
 - f. Recreation
 - g. Structures
 - h. Health
 - i. Safety
 - j. “Deal”
- 3) Holistic Paradigm = all the components working in harmony to create a new entity whose cumulative function performs beyond the sum of the components themselves
- 4) The “Shift” = a balance of ... design - sales - - technology
- 5) General low maintenance factors
 - a. Serviceable
 - b. Efficient
 - c. Chemically stable
 - d. Self cleaning
 - e. Automated
- 6) Chemical factors to consider
Water Balance
PH – TA – Calcium Hardness – Temperature – CA

- 7) Chemical devices
 - a. Chlorine feeders
 - b. Acid feeders
 - c. Ozone
 - d. Mineral systems
 - e. Chlorine generators
 - f. Ion systems
 - g. UV systems
 - h. Oxygen generators
 - i. Magnets

- 8) Cleaning factors to consider
 - a. Skimmers
 - b. Returns
 - c. Hydraulic design
 - d. Cleaning systems
 - i. Vacuum
 - ii. Pressure
 - iii. In-Floor
 - iv. Robotic

- 9) Distillation – A View At 20,000 Feet
 - a. Consider customer priorities
 - b. Design to meet objectives
 - c. Demonstrate “holistic” benefit
 - d. Finalize based upon customers stated goals

The Coriolis Effect

The Coriolis effect is defined as the apparent deflection of objects moving in a straight path relative to the earth's surface.

(airplanes, wind, missiles, and ocean currents etc.)

Its strength is proportional to the speed of the earth's rotation at different latitudes but it has an impact on moving objects across the globe.

The Coriolis Myth

The Coriolis myth states that it will cause the rotation of water down the drain of a sink, a toilet, or in a swimming pool.

Fact:

The Coriolis effect is far too weak to have any visible effect on a pool, sink, or toilet. It is 100% irrelevant to a pool's circulation. If it did have effect, it would be at the speed of the earth's rotation.

Sales Letter:

“VALUE & the Ultimate LOW maintenance Pool”

Dear Customer,

At “YourPoolCompany”, we provide our clients with the most up to date information, state of the art pool equipment, and professional jobsite and project supervision available anywhere. It is the goal of “YOURPOOLCOMPANY” to be on the cutting edge of new trends, materials and products, to provide you a level of service and expertise that would be impossible to find anywhere else.

“YOURPOOLCOMPANY” is committed to providing you value and quality second to none. With minimal involvement on your part and a close working relationship with “YOURPOOLCOMPANY”, you will receive “Value” unparalleled in this industry.

At “YOURPOOLCOMPANY” you will receive leading edge design combined with state of the art CAD plans, engineering and hydraulics, a must for the “Ultimate LOW maintenance Pool”.

With this in mind let me offer these suggestions for building the “Ultimate LOW maintenance Pool”.

- As with any construction project the most important part of it is in the foundation. Without a solid foundation anything we build on top of it would eventually crumble. So, the first thing we will incorporate into our “Low Maintenance Pool” will be additional steel (Rebar) to make it stronger. In fact, we add more and bigger steel into the stress areas of the shell than required by the engineered plans to ensure your pool is built to last. Additionally, we shoot a true 6” “shotcrete” structure to form a lasting foundation for your pool.
- Next, comes the latest, “state of the art”, pool equipment. These high quality components are engineered to be low maintenance and have long warranties.
- **High Flow Rate, High Capacity Modular Media Filter:** The filtration system would be a High Flow Rate, High Capacity Modular Media Filter design. This large capacity high flow rate filter does not require backwashing and typically needs cleaning only twice a year.

The advantages are the elimination of backwash water which accounts for hundreds of gallons of water loss into your yard. Also with this design drainage and erosion of the lost water is not a concern because there is no loss. This type of filter is much more effective than a Sand Filter without the extreme mess of a D.E. Filter design.

- **Variable Speed/Flow pump.** This energy efficient system can filter your pool water 24 hrs a day while using less electricity than a single speed pump would use in 8 hours.

This calculated design filters more water and provides constant circulation. Your water is constantly moving, not stagnating as it would with a single speed pump design operating only 8 hours per day. The variable speed pump would filter the entire pool 5.5 times each day where a single speed pump on an 8 hour cycle would only filter it 3.8 times. At the same time the cleaner better filtered pool with 24 hour circulation would use up to 20% less energy.

- Incorporate a chemical management system. An ozone unit, combined with a “catalyst system” and “in-deck” chlorinator can reduce chlorine consumption while providing a wonderful odor free, low chlorine, environment. The ozone system will oxidize organic contaminants while the catalyst ensures a pool free of algae. Then the “deck-chlor” provides a safe virus and bacteria free residual to protect you loved ones from sickness and infection.

This combined system eliminates itchy and sore red eyes, skin irritation, discolored hair and swimsuits, the awful chlorine smell, and leaves your water crystal clear. Another advantage to this system is its low cost compared to expensive salt water systems, requires little maintenance and lasts for years.

- Install an in-floor cleaning system with a debris catcher as well as a minimum of 4 (LOOPED) returns with a valve to separate and balance the flow between the main drain and skimmer.
- Use at least 1 skimmer for each 400 square feet of pool surface area with two skimmers on all pools over 300 sq. ft.
- Install automated motorized valves to switch from your cleaning system during high speed to your surface returns during low-speed, this will make maximum use of your entire circulation and filtration system.
- Besides cleaning, your in-floor cleaning system has other benefits. First of all it circulates your water from the bottom up evenly dispersing chemicals. Secondly, it provides you a more consistent temperature throughout your pool, even increasing thermal transfer to gain the maximum gain from the sun. Lastly, you won't have an unsightly hose or robotic cleaner to look at, maintain, and replace.
- Automate it! Install an automation system that you can control from inside your home. Look around you, everything is automated to make our lives easier, why not your pool? With an automation system you can control your filtration times, lights, water features, temperature ect... It can even make it look like you are home by turning features on and off at pre-determined times functioning as a secondary security system. If your pool has many features, it just makes sense to automate it.
- For the past xx years “YOURPOOLCOMPANY” has been one of the best licensed bonded and insured contractors with a commitment to quality and value. Our experience ensures your pool project will be completed in a timely manner. Most pools take less than 6 weeks.

- “YOURPOOLCOMPANY” will check your pool construction at every critical phase of construction. Your personal design of construction consultant will be available to you anytime. The staff and management at “YOURPOOLCOMPANY” are committed to supporting you through the completion of your pool. At “YOURPOOLCOMPANY” you are considered a client for as long as you own your pool to answer any questions or concerns that come up.

Before you decide to build a pool come see the professionals at “YOURPOOLCOMPANY”. We will do a job cost analysis and design you the pool of your dreams. If you decide that “YOURPOOLCOMPANY” is not for you, the education and experience you gain just by talking with our knowledgeable staff will benefit whatever decision you make. In the end we think you will see the “value” in what we have to offer.

Sincerely,

General Manager