

POOL TECHNOLOGY 2012

Leading by Innovation.

Future Pool Technology Today



UV Disinfection

Revolutionary Pumps

Robotic Cleaners

Zeolite Filters

as seen in the **WSJ**

chosen by **UNITED STATES NAVY**

chosen by more **TOP 50 BUILDERS**

REVOLUTIONARY

for less chemicals and a healthier pool



“A RADICAL DEPARTURE”

When it comes to pushing the boundaries of new green technology, the pool and spa industry has been downright timid. But all of that has just changed. Introducing SpectraLight™, a whole new breed of ultraviolet disinfection systems for residential & commercial pools and spas. In only seconds, a high powered ultraviolet light kills everything unlucky enough to pass through the disinfection chamber - algae, bacteria, viruses, cysts, fungi, and protozoans. With 60,000 microwatts, the world's most powerful UV pool system destroys organic matter and chloramines - the #1 enemy of quality swimming pool water.

“A WICKED MACHINE.”

SpectraLight is making quite an impression in the industry. Some of the nation's most respected organizations trust SpectraLight to safeguard their pools & spas. If SpectraLight is good enough to win over the United States Navy, imagine what it can do for your clients. How about lowering chemical demand by 75% or more - safe, healthy & easy to manage water, all at drinking water chlorine levels. And pool owners won't need controversial salt systems, but they can work together. Our full line of proprietary, leading edge products tap directly into the explosive green market.

“PROVEN PERFORMANCE”

There's much more to see at spectralightUV.com. But be forewarned. This isn't one of those websites that makes claims without backing them up. You'll find video-taped interviews with clients, aquatic clubs, and swim coaches. You'll find peer-reviewed scientific studies. You will see SpectraLight destroying everything that passes through its chamber. And crushing every preconceived notion you had about alternatives to swimming pool chemical sanitation.

About 80% of new, large water parks and aquatic facilities feature UV.

Tom Lachocki, CEO
National Swimming Pool Foundation



UV photons destroy over 99% of pool pathogens

ULTRAVIOLET POOL SYSTEMS

UV 2.0™ Ultra High-Output Lamps

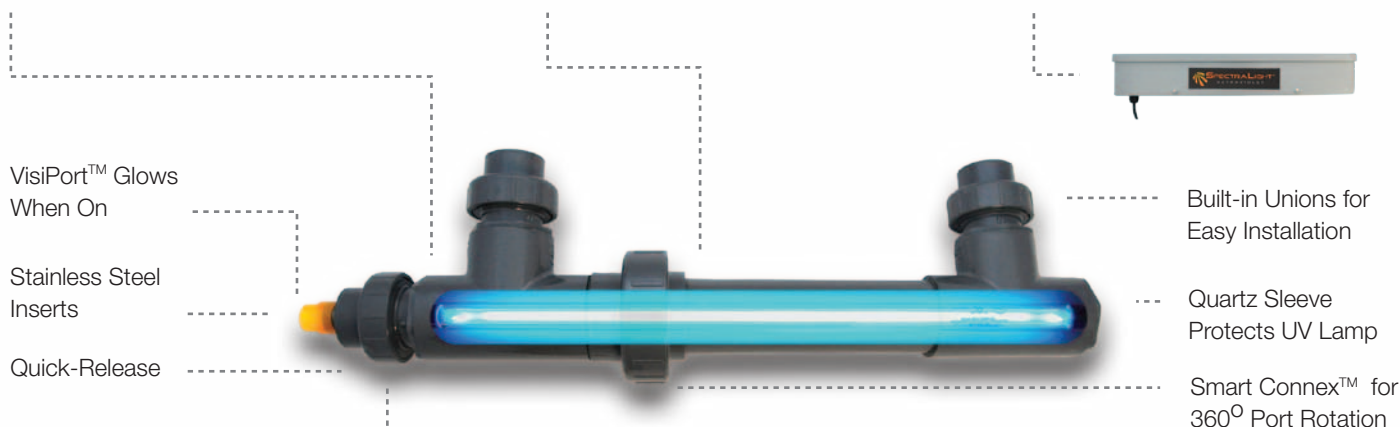
Patented ultra high-output lamps deliver four times the UV power of first generation lamps while lowering power usage by 30%. Charged with a proprietary blend of Xenon, Neon & Argon, SpectraLight's UV output is a remarkable feat.

Industrial Graphite Housing

We started with a high-impact, non-corrosive polymer housing. We then added Titanium Dioxide for maximum UV resistance. Optimized hydrodynamics insure high flow rates and maximum ultraviolet dosage.

IntelliVolt™ Electronic Ballasts

Our solid-state ballasts are engineered for far greater efficiency - saving up to 30%. Fuse-protected and switched, each solid-state electronic ballast is weather protected by a NEMA enclosure powder-coated in stone gray.



Aerospace Developed Double Seal

Fluoroelastomers were invented to meet the demanding needs of the aerospace industry. The same elastomers give SpectraLight outstanding reliability. Each part is machined from billet stock. We then add stainless steel inserts and EPDM O-rings for a seal that's virtually indestructible.



SpectraLight's double stainless steel seal is CNC machined to exacting specifications.

Intelligent Design

Modular construction allows each unit can be assembled and disassembled in less than three minutes. Our quick-release makes it possible to remove the protective sleeve and reinstall in less than 60 seconds, without using a single tool. SmartConnex™ allows for 360 degree port rotation, so installation is quick and easy. SpectraLight uses the power of a light bulb and requires very little maintenance. Just set it and forget it.

- 1 connect port 1
- 2 connect port 2
- 3 plug in



For all its technical sophistication, a SpectraLight installation is simple and straightforward.

Limited Lifetime Warranty

This industrial strength workhorse features rugged looks and a warranty to back it up - a limited lifetime warranty on the housing.

Lower free chlorine concentrations may be health protective when UV is used.

World Health Organization



UNRIVALED INNOVATION.

So Advanced, It's Actually Simple.

Real World Savings + Highest ROI

Traditional single-speed pool pumps require a staggering 1,600 to 2,000 watts of power. Pumps with variable frequency drives are efficient, but variable speed may be an overkill on simple pools. Meet EcoPump. Runs on less than 1/3 kW yet it doesn't sacrifice its affordability or reliability. Cutting-edge condensers store electrons in dielectrics until the power is called upon. When the motor rotates into the optimal position, the stored energy is released, boosting the energy transferred to the impeller. EcoBoost improves the energy savings up to 85% over traditional pool pumps. And because EcoPump is about 40% less than VFD pumps, the return on investment (ROI) is spectacular.

Simple + Easy

EcoPump is both easy to install and operate. We designed EcoPump to replace virtually any existing pool pump with minimal hassle. EcoPump works with any control system - from a simple 3-way switch to a simple timer to a programmable control system. No expensive equipment or complicated control system is required to realize huge savings.

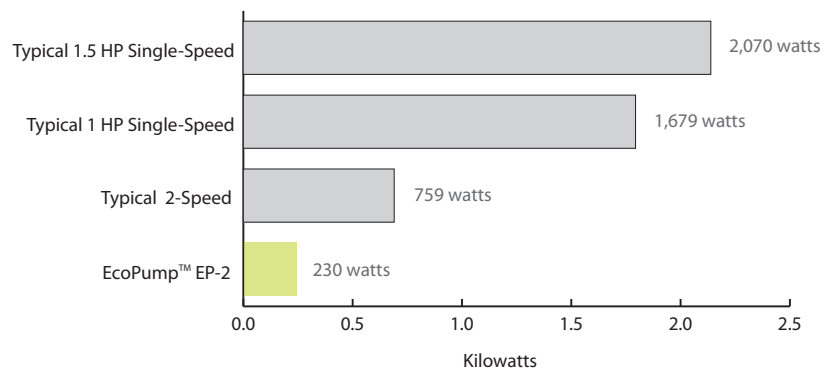
Runs Cool + Runs Quiet

EcoPump improves water quality with 24 hour filtration. In the past, many pool owners ran their pumps just 4-8 hours per day to reduce their electric bill. Sure that helps lower costs, but 16-20 hours of stagnant water creates a breeding ground for bacteria & algae. Those loud, humming pumps are a thing of the past. EcoPump is virtually silent during pool circulation.



Three Year Warranty

Most pool pumps have a one year warranty. Not EcoPump. EcoPump has a best in class 3 year limited warranty that will protect your investment for years to come.



UNMATCHED EFFICIENCY.

Exceeds Efficiency of Other VS Pumps by 45-53%



Variable Speed + Constant Performance

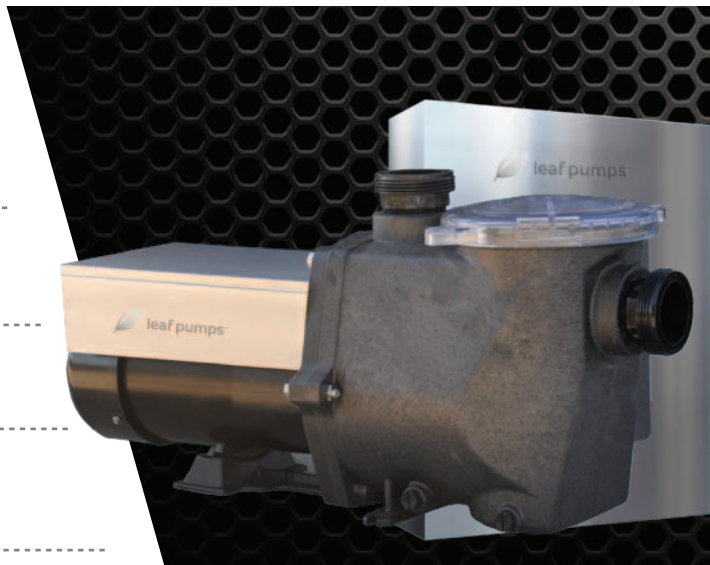
Leaf Pump technology is helping pools enter a new era of energy efficiency. Ten years ago, an “efficiency” pump required about 1500 watts of power. First generation variable speed pumps improved efficiency to 275 watts on average. But Leaf’s engineers weren’t satisfied. Using Advanced Vector Control (AVC) programmed into a powerful microprocessor, Leaf constantly adjusts the pulse-width modulation to achieve a 45 - 53% savings over first generation variable speed pumps.

Intelligent Design + Best in Class Warranty

First generation variable speed pool pumps have onboard VFDs that are mounted directly on the motor. But reliability suffered as heat, moisture and vibration did a number on sensitive electronics. [Google variable speed + poor warranty + unrepairable] Leaf Pump’s blueprint doesn’t look like anything that has come before - a remote located VFD. Leaf Pumps are protected with a 3-year best in class warranty.

Location = Longevity

Mounting your pump’s microprocessor on top of your motor is like mounting your car’s microprocessor on top of its motor. Best practices in industry require that VFDs are remotely mounted. Leaf features a VFD totally enclosed in an outdoor rated enclosure for maximum protection, superior cooling and longer life. Sensitive microprocessors are protected from the heat, moisture, and vibration of the motor. Leaf has set the new standard for performance, efficiency, and warranty.



Digital vector variable frequency drive -----

Efficient impeller & diffuser design -----

Neodymium permanent magnet technology -----

World’s strongest rare earth magnets -----

Ultra efficient 3-phase motor runs on single phase power -----

Remote mounted, fan-cooled VFD & microprocessor runs cool -----

NEMA 3R rated microprocessor enclosure -----

----- Sensitive electronics are safely mounted in the enclosure, not on top of the motor

----- Oversized aluminum heatsink with fan

Simplified keypad with bright LED readout

Leaf features an ultra efficient Neodymium permanent magnet AC motor like those used in electric cars. Benefits include inherently higher efficiency, superior starting torque, and superior reliability.



Minimal Resistance + Maximum Energy Efficiency

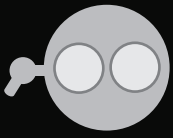
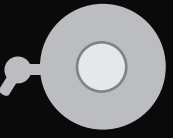



EcoFilter features many advanced features that work in harmony to reduce backpressure and energy use up to 40%. Other filters are heavily restricted by a single diffuser and a small lateral area that send water through a small fraction of the media bed. EcoFilter maximizes fluidization of the media bed with 100% more diffusers and 100% more laterals than competing filters for unmatched energy efficiency.

Optimized for ZeoPure™ Zeolite: The Magical Media

EcoFilter works great with sand but ZeoPure™ Zeolite really makes EcoFilter shine. With over 1,000 times the filter area as sand, ZeoPure™ traps particles as small as 2-3 microns. This wonder media removes even the most challenging contaminants like chloramines.

Stronger than Steel

While most filters are plastic, EcoFilter leverages FiberTec™ advanced filament winding technology. Originally invented to produce missile casings and airplane fuselages, the same process helps EcoFilter provide long-term reliability. FiberTec™ filament technology delivers a stronger, more dependable vessel that is backed by a best in class 5 year tank warranty.

<p>100% more diffusers</p>	<p>100% more laterals</p>	<h3>unrivaled innovation</h3>	
<p><i>EcoFilter</i></p>  <p><i>Typical Filter</i></p> 	<p><i>EcoFilter</i></p>  <p><i>Typical Filter</i></p> 	<p>Overhead dual diffusers maximize water flow & minimize energy use</p> <p>2" inlets / outlets & piping for efficiency</p> <p>Side mount sweep valve for easy media loading & greater efficiency</p> <p>Filters down to 3 microns when loaded with ZeoPure™</p>	<p>Oversized 8" access port</p> <p>Clear VisiPort™ lid for easy monitoring of filtration action</p>  <p>Snowflake™ hydraulically balanced 360 degree self-cleaning laterals</p> <p>Extra deep FiberTec™ media vessel</p>

EcoFilter features dual diffusers and our proprietary Snowflake laterals for up to a 40% improvement in energy efficiency. A cleaner filter media and less frequent backwashing saves time, money and water.

UNRIVALED ROBOTICS.

The Ultimate Robotic Pool Cleaner



EcoSport™

Efficiency in a Class by Itself

EcoSport's long list of features is surely impressive. But what's missing is equally important - no booster pump required. Booster pumps waste up to 1500 watts (think fifteen 100 watt light bulbs). EcoSport uses two highly efficient microprocessor-controlled 24 volt DC motors. Operating without backpressure, EcoSport moves up to 75 gpm while using just 180 watts - a 94% savings over traditional cleaners.



All-Terrain rubber tracks minimize slippage for superior wall climbing, optimal efficiency & faster cleaning



Twin TurboJet™ power washing spray jets dislodge tough to remove sand, silt, pollen & algae from porous surfaces, corners & seams



iPower™ supply features bright digital LED display, adjustable timer & is fully compatible with 3rd party timers & controls

HyperGrip™ Rubber Tracks

In the design of robotic pool cleaners, traction is everything. Wet pool surfaces are difficult for a wheel to grip. Slippage results in wasted energy and poor performance. EcoSport cleaners feature aggressive HyperGrip™ rubber tracks for superior power delivery, better control and greater efficiency.

Intelligent microprocessor control completes cleaning in as little as two hours

Fully adjustable debris port width/depth for max suction on any surface

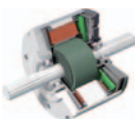
Twin 12" long scrubbing brushes deep clean to remove the tough stuff other cleaners leave behind

Onboard microfilter bag removes contaminants as small as 2 microns for healthier water and less chemicals



Best in class efficiency

EcoSport features dual microprocessor controlled 24 volt DC motors like those used in powerful cordless tools



Brushless, individually sealed, water-cooled, oil-free, motors provide unmatched reliability

fair price parts

Beware of manufacturers who charge up to \$600 to replace the onboard pump motor post warranty. EcoSport pump motors are only \$169.

3 year Ltd warranty



Protect What's Important With Advanced Technology



New Product Spotlight



- ▶ improves water clarity
- ▶ reduces energy use
- ▶ filters to two microns
- ▶ conserves water
- ▶ filters chemicals like ammonia
- ▶ environmentally friendly

- ▶ reduces backwashing to 1x Yr
- ▶ removes particles > 10 microns
- ▶ stops 80% of debris before filter
- ▶ requires only 4 gallons to flush
- ▶ conserves water & power
- ▶ efficient, free flowing design



US Navy selects SpectraLight Ultraviolet



The U.S. Navy Marine Mammal Program trains Bottlenose Dolphins to perform ship and harbor protection, mine detection and equipment recovery. The cornerstone of the dolphin pool water quality program is SpectraLight UV. SpectraLight Technologies is honored to have the trust and confidence of the US Navy placed with our company.

to become a dealer

Contact SpectraLight Technologies

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email dealers@spectrapool.com

Our Selective Distribution Model means we carefully select each dealer, so you won't find any of our products being sold through internet retailers at steep discounts. All of our dealers buy factory direct without distribution markup.

