

AS NATURAL AS SUNLIGHT.

FOR THE GUESTS.
FOR THE FACILITY.
FOR THE ENVIRONMENT.

Clean, clear, safe pool and spa water is easily achieved with BioShield® UV System.
UV disinfection is effective in delivering multiple benefits in the treatment of chloramines and germs for indoor and outdoor pools.



Indoor Spa image compliments of Hotel Julien Dubuque, Dubuque, IA



DECADES OF LEADING THE WAY TO CLEANER WATER.

Pentair has a long history of managing and treating water with advanced technology in water filtration and purification serving commercial, municipal and residential customers around the world.

We've made safe drinking water more accessible by treating and purifying water for reuse and desalination. Our comprehensive line of compatible water filtration and purification products help make water cleaner, clearer and safer for everything from agriculture to industry to the refreshing pool in your backyard.





AN ECO SELECT® BRAND PRODUCT
The BioShield® UV System has earned the Eco Select brand distinction from Pentair for its efficiency and environmentally friendly performance.



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pumps • filters • heaters • heat pumps • automation • lighting • cleaners • sanitizers • water features • maintenance products

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BIOSHIELD® UV SYSTEM FOR THE HOSPITALITY INDUSTRY

NEUTRALIZE 99.9% OF BACTERIA WITH UP TO 50% LESS CHLORINE



Indoor Pool image compliments of Hotel Julien Dubuque, Dubuque, IA



pentaircommercial.com

Does your pool have a strong chlorine odor?

If so, you've got chloramines. Chloramines (by-products of chlorine) are responsible for the unpleasant smell experienced by swimmers and guests. Chloramines form when the chlorine reacts with ammonia (sweat, urine and other waste from swimmers) in the pool water. Typical management of chloramines involves boosting the chlorine level (commonly referred to as "shocking" the pool) which drives up operational costs and can lead to bleached bathing suits. Additionally, chloramines contribute to corrosion of equipment in the pool area.

UV is a proven solution.

When you have guests, swimmers, or pool staff suffering from eye irritation or respiratory difficulties, it's most likely the result of high chloramine levels. UV is a proven method in the treatment of chloramines. Ultraviolet (UV) light breaks down the bonds of chloramine molecules to effectively reduce irritating odors and improve air quality. BioShield also helps protect dehumidification systems from corrosion and costly repairs extending the life of the HVAC system.

Give yourself the peace of mind of cleaner pool water.

Pool water can be a breeding ground for several kinds of harmful bacteria and pathogens that can cause recreational water illnesses (RWI's). That's why Pentair has harnessed the power of UV light to neutralize bacteria and prevent its reproduction. The BioShield® UV System provides instant protection as it "zaps" those harmful waterborne pathogens, providing cleaner, safer pool water for your guests.



Neutralizes harmful bacteria and pathogens instantly



Reduces chlorine usage by up to 50%



Commercial Grade Disinfectant power

IMPROVE GUEST EXPERIENCE

No more strong and unpleasant odors

Increased protection against harmful bacteria & pathogens

No more bleached bathing suits

Improves air quality for guests with respiratory concerns

REDUCE COSTS TO OPERATE POOL

Eliminate need to shock the pool

Reduce overall chemical usage

Reduced equipment corrosion

UV and chlorine are a "one-two" punch.

Chlorine by itself can effectively sanitize pool water. However, when faced with germs and bacteria that could lead to illness, chlorine is slow to react. UV on the other hand, is instant germicidal disinfection which inactivates bacteria and pathogens (cryptosporidium, giardia and E. coli) most commonly associated with recreational water illnesses (RWI's). UV disinfection provides instant and immediate treatment unlike free chlorine and ozone.

Unfortunately, the first sign of harmful pool water may be when a guest is exposed to harmful bacteria and becomes ill; this is too late. The "one-two" punch of standard chlorine disinfection, combined with the power of UV, ensure your guests can swim safely and the pool can be maintained worry-free and protected at all times.

BioShield UV systems are part of Pentair's ECO SELECT® BRAND product line and deliver multiple benefits contributing to healthy pool and spa water.

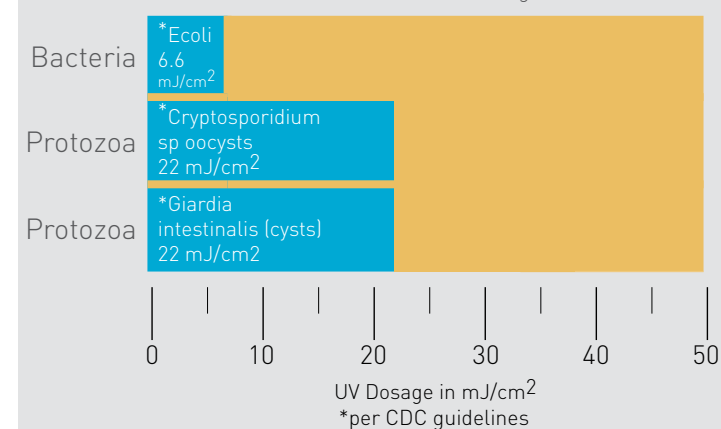
Chlorine Disinfection Is Not Instant

AGENT	DISINFECTANT TIMES FOR FECAL CONTAMINANTS IN CHLORINATED WATER*
E. Coli 0157:H7 Bacterium	<<1 minute
Hepatitis A Virus	.4 ppm @ <1 minute
Giardia Parasite	approximately 45 minutes
Cryptosporidium Parasite	approximately 15,300 minutes (10.6 days)

*1 mg/L(1ppm) free chlorine at pH 7.5 and 25° C (77°F)
*These disinfectant times are only for pools that do not use chlorine stabilizers such as cyanuric acid. Disinfection times would be expected to be longer in the presence of a chlorine stabilizer.

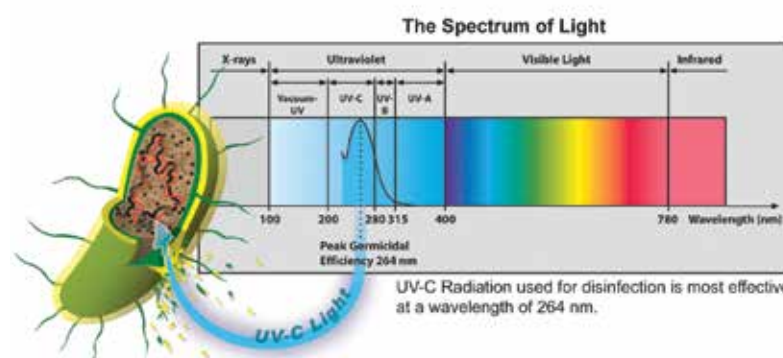
UV Disinfection Is Instant Required Microorganism UV Dose

In accordance with EPA and NSF guidelines



Is UV Safe?

UV treatment disinfects without adding potentially damaging chemicals to the water. The disinfection process takes place inside the UV contact chamber. Inspection ports at the top and bottom of the housing allow a visual confirmation that the unit is operating without risk of exposure.



BioShield UV falls under the APSP 11 Standard for Commercial Swimming Pools as a Water Conditioning Device.

UV Water Conditioning Device Systems are not required on an aquatic venue for health and safety reasons, but may be used to improve water quality and/or enhance overall system performance.

BioShield UV Features

UL listed for indoor and outdoor use, fresh and salt water use

Long lasting high output low pressure UV lamps (12,000 hour lamp life)

Low cost lamp replacement

Protective quartz sleeve (maximizes UV lamp output and safety)

Watertight design for indoor and outdoor installation

Wall mountable power supply 110V or 230V

UV Resistant high density polymer vessel (Lifetime warranty against UV degradation)

Non-UV transmitting lamp viewing ports

90% UVT		BioShield UV				
Part No.	Voltage	Watts	GPM at 30mJ/cm²	GPM at 40mJ/cm²	GPM at 60mJ/cm²	Dimensions
522635	115/230	50	25	17	12	30" X 6"
522636	115/230	80	45	32	24	45" X 6"
522637	115/230	120	62	43	32	57" X 6"
522638	115	150	100	70	50	71" X 6"
522945	230	150	100	70	50	71" X 6"
95% UVT		BioShield UV				
Part No.	Voltage	Watts	GPM at 30mJ/cm²	GPM at 40mJ/cm²	GPM at 60mJ/cm²	Dimensions
522635	115/230	50	29	19	14	30" X 6"
522636	115/230	80	52	40	26	45" X 6"
522637	115/230	120	72	55	35	57" X 6"
522638	115	150	100*	86	57	71" X 6"
522945	230	150	100*	86	57	71" X 6"

*Maximum allowable flow rate through system is 100 gpm

