PULSAR® PRS®

2-Stage Polymeric System

Pool Party-Poopers Have Finally Met Their Match

Traps 99.9% of Crypto on the Filter

Enhances Filtration Down to 0.5 Micron

Improves Water Clarity and Safety

Effectively Flocs Oils,
Eliminating Need for Enzyme Treatment

Improves Efficacy of UV Systems

Reduced fouling of controller probes

Biodegradable

Available in 5 and 55 Gallon Kits
(5 & 55 gallons each of Stage 1 and Stage 2)

pulsar system

PRS® Is The Only EPA-Reviewed Product To Effectively Trap Cryptosporidium, E. Coli And Giardia In The Pool's Filter

PULSAR® PRS®

2-Stage Polymeric System

How Hard is Pulsar® PRS® on the filter?

Pulsar® PRS works on all types of filters. DE, zeolite and cartridges have better filter capabilities than sand and are therefore more likely to have increased filter pressure from initial use. Noticeable pressure increases have not been observed after the first backwash.

Can Pulsar® PRS® be used in place of a sanitizer?

Pulsar® PRS® is not a sanitizer and should not be used in place of any EPA registered sanitizer. Pulsar® PRS® should be used in conjunction with a proper sanitizer as another layer of protection in a total risk management program. Pulsar® PRS® works by trapping microorganisms such as Cryptosporidium in stable flocs that are carried to the filter media and then filtered out. Health department guidelines for proper chlorine residuals, water balance and equipment maintenance should always be followed.

If I have UV, why do I need PRS®?

Effectiveness of UV systems can be hindered in the presence of high turbidity in the water. High turbidity, for example, can cause a normally functioning UV system to be ineffective because the ultraviolet light waves are absorbed or refracted by the suspended particles. Pulsar® PRS® can reduce turbidity rapidly and substantially, filtering particles all the way down to 0.5 micron. The result is dramatically improved water clarity.

How often should I backwash?

Regular backwashing should always be practiced according to the filter manufacturer's recommendations. Initial doses of Pulsar® PRS® may expedite the need for backwashing due to the number of particles already present in the water. Once Pulsar® PRS® is used regularly, and the filter has been backwashed or cleaned, the backwash cycle will return to normal and may even be extended. Regular use of Pulsar® PRS® improves filter efficiency by allowing embedded dirt and oil in the media to be cleaned out.

Can you put Pulsar® PRS® on a pump system?

Yes. A pump system is an ideal way to apply Pulsar® PRS® and ensures consistent and accurate dosage. Recommended use can range from daily, every other day, weekly, or even month to month based on water conditions and needs. Each pool should be evaluated accordingly. When used as part of a risk management program, regular daily application is ideal.

How far apart can Pulsar® PRS® Stage 1 and Stage 2 be applied?

For optimal performance, add Pulsar® PRS® Stage 1 followed by Stage 2 four to six hours later. It is strongly advised that Stage 2 be added within 24 hours of adding Stage 1.

Note: The longer the time between the additions of Stage 1 and Stage 2, the less effective the product will be at trapping microbes. It is always ideal to wait one turnover rate of the filter (six hours) before adding Stage 2.

How long will Pulsar® PRS® remain active in a pool?

This is dependant on bather load and the amount of contaminant present in the water. Pulsar® PRS® is consumed in the process of flocculation. Once Pulsar® PRS® has flocked a contaminant; it will be trapped by the filter usually within one turnover rate (6 hours). Application rates should be evaluated individually based on bather load and current water conditions.

How is Pulsar® PRS® different from other clarifiers?

Pulsar® PRS® is a natural, two-stage clarifier system. It is the only biopolymer system EPA approved to trap Cryptosporidium in pool filters. Pulsar® PRS® should be used as part of a risk management program for preventing recreational water illnesses or in instances where pristine water clarity is desired. *Note: Clarifiers that are synthetic based will actually add oil to the water that will then need to be removed.*

Why not just bump up my chlorine levels? Won't that clear and kill everything?

A good sanitizer is generally the first defense against fighting recreational water illnesses, however some pathogens, such as Cryptosporidium, are highly chlorine resistant. In order to kill Crypto with chlorine, it takes at least 9600 Contact Minutes (CT). Therefore, to effectively kill Crypto in 1 minute, the chlorine level would have to be 9600 ppm. Normal recommended chlorine levels are 1 to 3 ppm. Maximum health department standards for open pool operations are typically 5 to 10 ppm. At 10 ppm it would take 960 minutes (16 hours) to kill Crypto at 7.0 pH.

How does Pulsar® PRS® affect chlorine use?

In heavily used pools and spas, 70 to 85 percent of Chlorine can be spent oxidizing waste instead of sanitizing. Seventy percent of what is being oxidized are oils. So, if we multiply 0.7 times 0.7 we have 0.49 or roughly 50% of the total Cl added to the pool that is spent oxidizing oils. Since Pulsar® PRS® can encapsulate oils, the Cl is no longer trying to oxidize them, making it available to oxidize or sanitize other waste and contaminants as needed. If there is nothing else then it will take less Cl to maintain the same level in the pool. The oil removal capacity of Pulsar® PRS® alone accounts for substantial savings in chlorine use. Pulsar® PRS® should also dramatically reduce the labor spent on cleaning water line tile and diminish the need for enzymes. Pulsar® PRS® also works to keep filters and controller probes cleaner.

To find out more about the proven advantages of Pulsar® PRS® and the Pulsar® System, give us a call at **800-432-7223,** today.

Arch Chemicals, Inc.
1955 Lake Park Drive, Suite 250, Smyrna, GA 30080

www.archwaterworks.com/commercial

#49739; 10M; 3/09