

# microtech aligator

Swimming Pool Water Purification Systems

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## The Natural Choice

## microtech-aligator

is a UK based company and has been producing water purification systems for over twenty years. The company is a member of the swimming pool equipment manufacturer's trade organisation in the UK known as SPATA (Swimming Pool Allied Trade Association).

The Microtech-Aligator Systems are designed for use in Hotels, Water Features, Grey Water Systems, Roof-Top Tanks, Commercial Swimming Pools, Sewage Systems and Aquamarine Environments.

The Microtech-Aligator System is fully automated and works by harmlessly generating copper, silver and zinc ions in minute quantities into the swimming pool water. This process of ionisation creates a residual and stable sanitiser throughout the pool. Copper and silver have been used for hundreds of years to purify water and continue to be used today for controlling algae and bacteria.

The Microtech-Aligator System reduces the need for chlorine by up to 60-75% and creates crystal clear allergy free pool water of drinking quality standard. It is still important to maintain a low level of chlorine to oxidize sweat, suntan oil, make-up and organic matter such as leaf debris. The need for flocculants, water clarifiers and algaecides is reduced and the backwash water can be recycled, for example, used for irrigation.

It is therefore a very sustainable method for swimming pool water purification, not only through cost savings, but also by being much kinder to the environment.

The Microtech-Aligator System comprises a control unit and chamber fitted with a pair of electrodes. The electrodes are made from copper, silver and zinc. The chamber is fitted between the swimming pool pump and the filter(s). Whilst water is flowing through the chamber, a low voltage DC current is passed through the electrodes and metallic ions are generated into the water. The positively charged ions are attracted to and subsequently kill the algae and bacteria. The particles (from the algae and bacteria), remain positively charged and floc together and are subsequently removed from the pool water by the filter.

The presence of the low level copper, silver and zinc ions in the pool water maintains a continuous background level of sanitation to prevent the formation of e-coli, bacteria etc. without adding any toxicity to the water. The ions are not affected by heat and sunlight; therefore

they are capable of providing a very stable residual sanitiser. The ionisation technology lowers the requirement for chlorine which reduces the undesirable side effects often found in other swimming pool environments, such as red burning eyes, bleached swimming costumes, dry skin and chlorine odours. This makes our environment a much safer and more user-friendly place to swim in.



## The benefits of microtech-aligator

- Crystal clear water for a great swimming experience
- Perfect for children and allergy sufferers
- Far more environmentally friendly by reducing the need for harmful chemicals
- The automated system reduces operational costs
- Measurable cost savings of typically 60-75% are achieved by reduced chemical usage
- Eliminates the need for flocculants, water clarifiers and algaecides
- The automated system tells you when the electrodes need attention
- The backwash waste water can be recycled and used for example, for irrigation
- Eliminates black, yellow and green algae as well as bacteria
- Allows the pool water to be maintained to drinking quality water standard
- Purified ions do not dissipate in heat or sunlight unlike ozone, chlorine or bromine sanitation which only lasts for a short period
- Rugged and durable design with solid state circuitry protects the system from moisture and corrosion

crystal clear  
water

