

OSPA-BlueClear® Disinfection 25/50/100 ELD

Unparalleled, hygienically pure wellness water



- Perfect disinfection and hygiene
- Fully automatic and efficient operation
- Safe application
- No chlorine storage
- Optimum water quality without chlorine odor

ospa

Purity without compromises

Perfection in disinfection, handling and safety



-  Comfortable: Ospa-BlueClear® systems operate fully automatically and reliably
-  Resource conservative: up to 75 % less chemicals for the most natural swimming pool water
-  Certified by the Gelsenkirchen Hygiene Institute: Very good disinfection performance
-  Only active components that are approved for drinking water treatment are used

 MADE IN GERMANY

- Hygienic and oxygen-rich wellness water
- Gentle on the skin and eyes
- More than 60 years of experience in development and manufacturing guarantee maximum safety

The key factor in swimming pool water disinfection.

Water in public swimming and bathing pools must be in a constantly hygienic condition according to § 37 of the infection protection law, so that its use poses no threat of harm to human health, particularly through pathogens. In order to ensure compliance with this requirement, according to DIN 19 643, chlorine gas and inorganic chlorine compounds are preferably used for fast and safe disinfection.

There must be a constant disinfection effect in the swimming pool itself (depot). Micro-organisms such as bacteria or viruses that are introduced by swimmers or environmental influences are resolved by oxidation. The disinfection effect in the swimming water must be easily and reliably verifiable based on measurements. Ospa-BlueClear® systems ideally fulfill these requirements of DIN 19 643.

Ospa-BlueClear® operates fully automatically.

Ospa-BlueClear® systems are salt electrolysis systems for on-demand, on-site production of additive-free disinfectants. The unit contains an electrolysis chamber in the interior, in which salt and water are electrolyzed. The special design of the system creates high quality chlorine-oxygen compounds. This pure disinfectant, which is also approved for drinking water, is first dissolved with pool water in a dissolving chamber within the system and then added to the filtered water via the Ospa injector. With the Ospa-BlueClear® method, only as much disinfectant is generated and added as is needed at a given moment. Salt just has to be refilled as an operating resource – easily, economically and safely. Chlorine content and pH value are regulated with the Ospa-BlueControl® or the Ospa-CompactControl® control. This fulfills the requirement for automatic, on-demand chlorine dosing according to DIN 19 643.



Ospa-BlueClear® control unit - the digital control center with touch screen for operation and performance display



Certified by the Hygiene Institute. Ospa-BlueClear® systems have been certified for use in public swimming pools by the Gelsenkirchen Hygiene Institute. This certification confirms that a particularly high redox potential and therefore safe disinfection and high germ killing speed were achieved during the entire examination period.

The excellent treatment performance of the combination of flocculation, filtration and disinfection methods with the Ospa-BlueClear® systems is confirmed.

No handling of disinfectant chemicals. Only natural salt must be filled and stored. Ospa BlueClear® systems eliminate the risk of accident while handling and storing chlorine as a gas, powder or liquid.

With Ospa-BlueClear® systems, no corrosive salt enters the pool water. This prevents an additional increase of chloride content in the pool water as occurs when using sodium hypochlorite, for example.

Ospa siphon reservoir for pH value correction. Ospa-BlueClear® systems produce a practically chloride-free alkaline solution that is separated and removed from the disinfection system. Captured in the Ospa siphon reservoir, it serves to correct the pH of the pool water and is automatically fed to the pool by means of a dosing pump. The system is controlled via Ospa-BlueControl® /CompactControl®. Excess alkaline solution, heavily diluted, is diverted to the sewage system during filter flushing with a partial flow of the flushing water.

Levels of performance. 25, 50, 100g chlorine per hour. Multiple systems can be combined with each other. This increases performance as well as reliability.

Advantages

- **Hygienic.** Ospa-BlueClear® systems offer safe and reliable disinfection in accordance with DIN 19 643.
- **Oxygen-rich.** Ospa-BlueClear® systems bring freshness to pool water. The water becomes vibrant and never feels stale.
- **Natural.** No detrimental carrier substances, solid or liquid preparations or electrolysis by-products enter the water.
- **On-demand.** Ospa-BlueClear® systems only generate as much chlorine as is needed at the moment.
- **Safe.** Ospa-BlueClear® systems eliminate the need to store and handle disinfection chemicals. This reduces the risk of accident and is particularly advantageous with respect to work safety laws and hazardous materials regulations.
- **Convenient.** Ospa-BlueClear® systems operate fully automatically. Salt just has to be refilled.
- **Cost-effective.** 1 g of active chlorine generated in Ospa-BlueClear® systems costs only a fraction of the same quantity of solid or liquid chlorine preparations.
- **Environmentally conservative.** Natural operating resources, low chemical consumption, high degree of efficiency.
- **Legally secure.** Compliant with biocide regulations.

Cost-effective and reliable

Low operating costs – maximum safety



Unbeatably low operating costs. It costs only about €1.35 for salt and electricity consumption to generate 1 kg of active chlorine in Ospa-BlueClear® systems (at an assumed electricity rate of €0.26/kWh). The operating costs for Ospa-BlueClear® systems are thus significantly lower than for chlorine products in liquid or powder form. Compared to other disinfection methods, the Blue-Clear® method from Ospa uses only one fourth the quantity of resources for regulating disinfection and pH value. This means up to 75% less chemicals for the most natural swimming pool water.

The Ospa disinfection method is therefore friendlier to the environment and contributes to its protection. As an operator, you also benefit from significantly lower transport and storage expenses, and particularly from significantly lower operating risk.

Maximum safety. According to hazardous materials regulations, the risk to people's health and safety must be eliminated or reduced to a minimum by appropriate measures.

First and foremost, this relates to the replacement of substances or methods with less dangerous alternatives (principle of substitution). For example, its brochure DGV BGI/GUV-I 8688, "Hazardous

substances in swimming and bathing pool water treatment," German Social Accident Insurance recommends giving priority electrolysis over other methods whenever possible.

Ospa-BlueClear® electrolysis ideally fulfills these requirements. The special design of the Ospa-BlueClear® systems practically eliminates the risk of accident from escaping chlorine gas. This is achieved in that the electrolysis cell is attached under water and the entire system operates at negative pressure. Various sensors monitor the functionality of the system and immediately shut down disinfectant production in case of faults.

Through the exclusive use of salt as a refillable operating resource, the handling, storage and risk of interchanging dangerous chlorine chemicals is also eliminated.

Conforms to the EU biocide regulation

OspaSal, used by Ospa for electrolysis, is notified according to the biocide regulation. Ospa customers are on the safe side as a result, since Ospa is on the ECHA Article 95 list.

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