

ChlorKing® Salt Chlorinators

The New ChlorKing® Classic Salt Chlorinator is now available.

ChlorKing® Classic systems have been specifically designed for those pool operators who want a less costly ChlorKing® Salt System, but who are prepared for additional maintenance of the equipment. Our Classic systems operate using the same principle as our self cleaning models, however, the cell requires a manual acid clean on a weekly basis.

ChlorKing® Classic Salt Chlorinators are available to retrofit existing pump rooms or to design into a new swimming pool facility. Systems carry both NSF 50 and UL 1081 certification.

Features And Benefits ...

• **Easy to install**

The new ChlorKing® Classic systems are mounted onto any wall surface in the pump room, and plumbed into an existing circulation system, without cutting into existing pipes. ChlorKing® Classic systems use bypass flow and are not in-line and each component can be mounted individually allowing for a wide variety of installation options.

• **Easy to use**

ChlorKing® Classic systems offers the simplest operation available, using the KIS (keep it simple) process. A dial is mounted on the system, similar to a light dimmer at home, and a simple turn of the dial increases, or decreases chlorine production. Classic systems are also equipped with our ChlorKing® 5000 conductivity controller for easy salt control.



• **Reliable performance**

All components used in the manufacture of the ChlorKing® Classic systems are of industrial standard, and designed for 24/7 operation, allowing the ChlorKing® systems to operate at maximum output continuously.



• **Models available**

5.0 lb / day	7.5 lb / day
10 lb / day	15 lb / day
20 lb / day	25 lb / day

• **ORP inputs**

All ChlorKing® systems have a separate ORP input which allows a regular controller to activate the chlorKing® system. This allows pools to keep existing controllers to maintain ORP and PH levels.

• **Bather friendly**

ChlorKing® systems operate with 0.5% salinity in the water; this salinity level is slightly less than human tears and gives the water a "mineral spa" feel.

• **Low Operating Costs**

ChlorKing® systems operate using the salinity in the water to produce hypochlorous acid, which is what is measured as free chlorine on test kits. Because salt is not consumed in this process, the only makeup required is when water is lost due to backwashing or rainfall.



ChlorKing® Chlorine Generators

Principle of Operation

Salt:

Non-iodized, coarse, sun dried or pelletized salt (normally in 40 lb bags) is initially added to the Pool water to develop a concentration of 0.5% (5000 ppm). This concentration of salt in the water is similar to that of human tears and is therefore very gentle to the swimmers eyes, skin and mucous membranes.

Electricity:

A small amount of electricity is used by the ChlorKing® system during the electrolytic process

The Electrolytic Process:

Hypochlorous acid is produced when an electrical DC current is passed between the positively charged anode plates and negatively charged cathode plates in the chlorinator cell.

This solution flows, after mixing into the water leaving the filter, directly into the swimming pool. The only by-product, hydrogen gas, which is produced in this process, is naturally dissipated. There is no waste product produced during this process.

Sanitizing effect:

While the filtration system, which is linked to to the electrical power supply of the chlorination system, is operating, the system will introduce electrolytically produced hypochlorous acid into the swimming pool on a continuous basis. The system does not operate unless the filtration system is operating.

This continuous introduction of hypochlorous acid will ensure the continuous sanitization of the pool water and provide the necessary chlorine residual required. It also provides an environment that reduces the formation of chloramines. When the hypochlorous acid produced by the chlorinator has destroyed the bacteria in the pool, it reverts to salt (sodium chloride). This means that salt is continually regenerated in the process and the only loss of salt is due to backwashing, leaks, or in the case of an outdoor pool, very heavy rainfall. During these occasions it will be necessary to add salt to the pool water to bring the concentration back to the desired level of 5000 ppm.

ChlorKing® Classic Specifications

Power requirements:

220V, 6 - 24 amps 5.0 lb – 25 lb models

Power Enclosures:

NEMA 3R (suitable for indoor and outdoor Installation)

Control:

Chlorine production available from 5 – 100% to ensure continuous sanitization levels.

Flow Requirements:

20 – 30 gpm at 30 psi max.

Cell Specifications

Plates:

Titanium coated with ruthenium dioxide.

Cell Housing:

Combination PVC schedule 40 & 80.

Operating temperature:

59-104° F

Water Chemistry requirements:

PH: 7.2 –7.6 (7.3 ideal)

Alkalinity: 80 – 120

Hardness: 180 – 250 ppm

Stabilizer: 30 – 80 ppm

Salt: 4000 – 6000 ppm

Acid Cleaning

The Classic system differs from our self cleaning models as it requires weekly cleaning of the cell. This is easily achieved using our acid wash system. (Included)

