

# Viron eQuilibrium Chlorinator System

Chlorination with Artificial Intelligence

- ✓ 4 sizes to suit all pools
- ✓ 3 models to suit all budgets
- ✓ Upgrade from semi automatic pH control through to full chlorine and pH sensing and control
- ✓ Ai mode for total pool control
- ✓ Suitable for salt, mineral and acqua therepé pools





# Viron eQuilibrium Chlorinator

Your pool is one of the largest and most important investments you will ever make. It is important that it looks great, is healthy and safe to swim in and continues to add value to your house at all times.

## **AUTOMATIC FILTRATION SYSTEM**

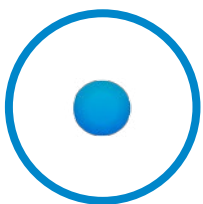
The core needs of any swimming pool is the filtration system which removes unsightly organic matter that feeds bacteria and algae plus the sanitiser which destroys any algae and bacteria which enters the water. Modern day pumps, filters and pool cleaners remove the organic matter very effectively and automatically, almost eliminating day to day maintenance. Chlorinators cleverly produce sufficient sanitiser to destroy bacteria and algae but almost none regulate the amount of sanitiser or adjust the water balance.

The problem is, too much sanitiser can fade the pool colour, become corrosive, damage the pool shell and pool equipment. In addition, nearly all sanitisers affect

the water balance (pH) rendering the sanitiser ineffective at destroying bacteria and requiring lots of corrective balancing chemicals to be added to the pool by the owner or pool specialist. High pH causes skin irritations and red eyes.

## **THE VIRON EQUILIBRIUM RANGE**

The Viron eQuilibrium Chlorinator provides a range of options to minimise or eliminate the change in water balance. This dramatically reduces manual water testing, maintenance or corrective actions required for your pool water. The Viron eQuilibrium Chlorinator can even test, monitor and maintain the perfect level sanitiser and pH balance to keep your pool safe, healthy and looking great.



## *Viron eQuilibrium Salt Chlorinator*

**You've made the decision to install a salt chlorinator – and no wonder.**

AstralPool's new Viron eQuilibrium Salt Chlorinator brings a new benchmark in efficiency, control, convenience and reliability. To be accurate, salt or minerals don't sanitise the pool, chlorine does. Salt or minerals, when dissolved into your pool water are converted by the Viron eQuilibrium Salt Chlorinator into chlorine which sanitises your pool. The salts or minerals, in roughly the same solution as a tear drop, pass through the electrolytic plates in the Viron chlorinator cell to form chlorine which kills all the contaminants within the pool and prevents bacteria and algae from forming.

But the process of producing the chlorine from salt or minerals actually increases the pH of your pool water.

When the pH increases, the chlorine becomes less effective, requiring ever higher levels of chlorine to keep your water crystal clean. The Viron eQuilibrium Salt Chlorinator incorporates a very smart algorithm that doses pH adjuster to match the amount of sanitiser produced and balance the pH of your pool. This is achieved in the most cost effective way as no pH sensor is required. Small adjustments are made by manually testing the water and adjusting the pH output.

The Viron eQuilibrium Chlorinator System incorporates a peristaltic pump and connections to automatically feed the pH adjuster in measured doses eliminating the need to manually handle and dose acid.





## Viron eEquilibrium 2 Chlorinator System

Incorporating all the functions of the eEquilibrium System, the eEquilibrium 2 Chlorinator has an pH sensor to maintain the perfect pH level. Different pool surfaces have different ideal pH levels. With the Viron eEquilibrium Chlorinator your pH is sensed every 15 minutes and the appropriate measure of pH adjuster is accurately dosed by the inbuilt peristaltic pump. Simply replenish your pH adjuster once a month or even longer and let Viron eEquilibrium 2 Chlorinator System sanitise and balance your pool water pH.



*Perfect pH balance helps eliminate skin irritations, red eyes, and protects your pool and equipment.*



## Viron eEquilibrium 3 Chlorinator System

### **Sanitiser level is crucial in two ways.**

Sufficient sanitiser ensures the destruction of pathogens, bacteria and algae that are harmful to swimmers. Too much sanitiser can be harmful to your pool interior, pump, filter and heating equipment. Viron eEquilibrium 3 System continually senses the sanitiser level with sophisticated pure gold sensor while the micro processor receiving this information reacts by modulating the output of the electrodes that produce the sanitiser. The result is the perfect level of sanitiser that quickly reacts to varying environmental conditions and pool use. When the family goes for a swim the sanitiser is quickly used up.

Viron eEquilibrium 3 senses the lower levels of sanitiser and instantly ramps up the electrode output to increase sanitiser to a safe level. Putting a blanket on the pool allows sanitiser to accumulate and build up quickly however, the Viron eEquilibrium 3 reacts instantly to minimise or totally turn the electrode off to prevent excessive sanitiser building up and harming the pool and equipment.

*For the perfect water balance combined with the lowest safe and healthy sanitiser level Viron eEquilibrium 3 Chlorinator System is the perfect solution.*



## eEquilibrium Ai Mode

When fully optioned with eEquilibrium 2 and 3 sensors, the Ai mode can be selected. Ai mode eliminates the traditional method of setting a time clock and hoping the pump operates for sufficient time to remove the organic material and sanitise the pool. When connected to a compatible Viron eVo pump, selecting Ai mode automatically controls the pump flow rate, hours of operation, sanitiser production and pH balance. Not only is the whole filtration and sanitation now handled automatically, Ai mode continually monitors the pool water sanitiser level and instantly turns the pump flow rate up reactivating the sanitiser production whenever there is a sudden drop in the correct levels due to an influx of bathers.

Picture the family jumping in the pool after dinner on a hot summers night. Ai mode instantly recognises the reduction in sanitiser levels, turns the filtration system on and starts to produce sanitiser and adjust the pH automatically to keep your pool healthy and safe. The Viron eEquilibrium 3 chlorinator system matched



to the Viron eVo variable speed pump has allowed the smartest and most complete operating system yet to sense, monitor and react to changing Sanitiser levels and water balance without any concern or effort by the pool owner.

*So take the guess work out of maintaining your pool. Let Viron eEquilibrium 3 in Ai mode do the hard work - just enjoy your pool.*

# Technical Features

## Chlorinator Systems

Viron eQuilibrium Chlorinator Systems all incorporate switch mode power supplies to provide high efficiency DC power to the electrode. This helps produce the maximum sanitiser output. High quality electrode life is enhanced by the intelligent polarity reversal. Rather than reverse automatically at fixed intervals, the Viron eQuilibrium Chlorinator accounts for the sanitiser output setting and will reduce polarity reversals to significantly extend electrode life. This coupled with our unique soft start and shut down system, allows the Chlorinator Cell to be covered by a 5 year unconditional warranty.

## LCD Screen

The large LCD screen on the controller provides meaningful information such as chlorine level, output level of cell, pH set point and actual water balance and even records the total hours of operation, maximum chlorine level recorded and low/high pH levels recorded. Not often used but good to know it is there.

## pH & Chlorine Sensors

The pH and Chlorine sensors incorporate their own built in amplifiers and are optically connected which prevents electrical interference from storms or other sources. This provides the most accurate pH and Chlorine readings. Fuzzy logic enables the micro processor to accurately and slowly add pH adjuster to achieve the perfect pH level and self learn the amount of adjuster required.

All of the control functions are in one easy to install control unit which connects to the cell, pH sensor, chlorine sensor and pH adjuster container. The controller cleverly incorporates the peristaltic pump which adds measured doses of pH adjuster.

## Warranty

Your Viron eQuilibrium Chlorinator is covered by 5 year warranty on the cell, 5 year pro-rata warranty on the controller and 12 month warranty on the sensors. For more information go to [astralpool.com.au](http://astralpool.com.au)

# Viron eQuilibrium Chlorinator System

Product Code	eQuilibrium 2 pH Sensor	eQuilibrium 3 Chlorine Sensor	Chlorine Output/ hour	*Pool Volume (litres) Temperature Climate	**Pool Volume (litres) Tropical Climate	Inbuilt pH Pump capacity 100ml/hr to 850 ml/hr		Max Filter Pump Current Draw	Max Current
						Diluted Hydrochloric Acid 1 to 3	Straight Hydrochloric Acid		
<b>EQ18 Chlorinator</b>	520135	520136	18 gm/hr	50,000	40,000	120,000	250,000	8.5 amps	10 amps
<b>EQ25 Chlorinator</b>	520135	520136	25 gm/hr	96,000	60,000	120,000	250,000	8.5 amps	10 amps
<b>EQ35 Chlorinator</b>	520135	520136	35 gm/hr	130,000	80,000	120,000	250,000	8.5 amps	10 amps
<b>EQ45 Chlorinator</b>	520135	520136	45 gm/hr	170,000	105,000	120,000	250,000	8.5 amps	10 amps

\* Temperate climate water temperatures are lower and therefore inhibit algae and bacteria

\*\* Tropical climate water temperatures are warmer and require higher chlorine output to combat algae and bacterial growth



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