



E - C L E A R
T E C H N O L O G I E S

ON
OXYGEN

*Healthy **Water**. Healthy **Earth**. Healthy **You**!*

TRUST

E-Clear Technologies has been making the patented E-Clear system for over 27 years.

We Currently manufacture and export to around 40 countries worldwide, with more than 26 000 installations in 80 countries and territories globally.

These include hotels, schools, science institutes, universities, gyms, canning factories, royal palaces, luxury private residences, racehorse training pools, swim schools, baby spas, giant fountains, koi ponds, and jacuzzis,

Our systems also provide chemical-free solutions for drinking water systems, for residential complexes, off-grid drinking water systems for hotels, hospitals, gyms, guesthouses, commercial and office buildings and private residences.

We are the **LARGEST** and **OLDEST** manufacturer of oxygen water sanitizers in the world.

Our clients include, government, big business, medical facilities, royal families, non-profit organizations and the private-sector.

Some institutions who entrust us with their water sanitization needs are:

Yas Marina Hotel, Dubai
Emirates Palace Hotel, ABU Dhabi
Jumeirah Beach Hotel, UAE
Le Meridian Hotel, Dubai
Sports Science Institute of South Africa, CT
Parklands College Private School, CT
Stellenbosch University Training Pool
Savoy Resort and Spa, Seychelles
Dubai Marina Luxury Beach Resort, Dubai
The Table Bay Hotel, Cape Town
Virgin Active Health Club Steenberg
Various Private Palaces, Middle East
And many Swim Schools around the world
as well as many thousands
of private institutions
and private residences.

We are committed to service.
You can find a comprehensive user manual here

USER MANUAL



That includes full step by step **INSTALLATION GUIDE**

Weekly, monthly, annual MAINTENANCE GUIDE

and an in depth **PROBLEM SOLVING GUIDE.**

These are all downloadable
on www.eclearsa.com for print

WEBSITE



or available to view on our service dedicated
smartphone and tablet apps on the app stores.

Search: **eclear**



We have a dedicated **WhatsApp** number for
SERVICE QUESTIONS -
+27 76 611 7803
contactable from anywhere in the world.

WHATSAPP



For more technical questions or
service issues you can email the **GENERAL MANAGER**
directly at jason@eclearsa.com
Or on landline number
+2721 854 6356

EMAIL



We offer a **1 year** manufacturing warranty
with the option of extending the warranty to **3 years.**

INTEGRITY

WHY DO YOU NEED E-CLEAR ?

Most pools rely on chlorine or its close cousin bromine to provide strong disinfection. Chlorine is good for killing algae and mold as well as many waterborne bacteria that carry diseases. But the powerful oxidizing chemical reacts with organic matter, leaves and dirt that land in outdoor pools, as well as the sweat, oils, lotions, saliva, and urine that people introduce. These form dozens of so-called disinfection byproducts, or DBPs, which can be toxic and can't be biologically degraded in the water.

When pools are poorly maintained or badly ventilated, these chemicals can irritate the skin, eyes, respiratory tracts, and have much worse effects.

Scientists have known for some time that acute exposure to pure chlorine from swimming pool accidents resulting from improper mixing of chemicals or chemical leaks that lead to chlorine gas explosions can severely damage the lungs.

But during the last few years, more medical studies have linked DBP chemicals to asthma and respiratory problems such as lifeguard lung, or granulomatous pneumonitis

Many feel that salt water chlorinators are the answer, however a salt water chlorinator simply converts the salt in the water into chlorine, thus creating a chlorine production source directly in your pool. Along with all the same deadly side effects as when adding granular chlorine to the pool.



*Dangers of disinfection
Byproducts*



*Swimming into
toxic waters*



*Chlorinated pools
contribute to asthma*



*Recent medical
report*

WHY DOES THE EARTH NEED E-CLEAR ?

E-CLEAR TECHNOLOGIES is a company born out of necessity. 27 years ago there were few to no alternatives to chlorine and salt chlorination.

Green technologies, organic processes were not a worry and the over chemicalisation of our water sources wasn't a problem. It simply didn't come up on the radar of governments, let alone everyday folk.

Certainly, micro plastic ingestion, entire cities running out of water, due to global warming and countries going to war over water, was a distant nightmare, not even considered.

27 years later and all of the above threaten our very existence!

E-CLEAR has been manufacturing and supplying a solution to all these issues in 70 countries for the past 27 years. Way ahead of the curve, we realised long ago that mankind's most precious resource is water. Without it each and every one of us will die within a week.

Nothing is more important to our continued existence as individuals and as a species.

But water and keeping it clean is also vital to our planet. Water controls climate, it nourishes our food sources, it controls the earth's temperature and it carries whatever pollutes it to literally every square centimeter of this planet.

So what we put in our water, is vitally important to the continued health of our only planetary home and thus means life and death to us.

E-CLEAR has been delivering chemical free, plastic free, healthy clean water since before it was in fashion to do so because we value life and we value our beautiful earth.

And we continue to strive forward in developing technological advancements that, in the future will continue to deliver - healthy water, a healthy earth and therefore, a healthy you!



*Explainer
Video*

How E-Clear works

WHAT DOES E-CLEAR HAVE TO OFFER ?

E-Clear's natural pool oxygenator (O₂) technology delivers over 40,000g oxidation/hr making it the most powerful water treatment system currently available for spa pool and heated pool applications. Yet, unlike chlorine or salt chlorinator systems, e-clear generates no harmful chloramine gas or toxic disinfection byproducts (DBPs) providing a guaranteed superior swimming experience without any red eyes, allergies and asthma.

For domestic swimming pools e-clear offers home owners hours of healthy chlorine free swimming, hassle-free pool maintenance and a water wise, eco-friendly alternative to chlorine and salt chlorination.

Fully automated, easy to operate and maintain, with no corrosion to your pool pump, pool filter or pool lining, e-clear provides huge savings in pool maintenance and annual pool costs.

HOW DOES E-CLEAR BENEFIT YOU ?

ECO-FRIENDLY

- NO chemicals entering the water system
- NO salination of natural water ways
- Water wise. Backwash pool to your garden
- Your pets can safely drink your pool water

HEALTHY

- No more red burning eyes
- No more dry skin or damaged hair after swimming
- No more burning lungs
- Extremely beneficial for eczema, psoriasis sufferers
- Asthma sufferers
- No more Cancer risk

HEALTH BOOSTER

Silver is world's most powerful anti-bacterial agent.

An immune booster, treats psoriasis, excema, heals wounds quickly and safely.

Anti-virus, anti- inflammatory, treats and prevents sinus infection and allergies.

The system produces colloidal silver which can be safely drunk to promote general health

NON TOXIC

- No carcinogenic DBP's or Trihalomethanes
- No poisonous Chloramine gas
- Virtually chemical free water , soft and ph neutral
- Water so clean and chemical free you can repurpose it during water restrictions or droughts

COST SAVING

- Save on water
- Non-corrosive.
- Extends life of pool and equipment
- Save on cost of chemicals

EASY MAINTENANCE

- Only need to test for copper and adjust ph weekly
- Hassle free-oxidation and Ionization automated
- Self cleaning Anodes

PROTECTION

- Micro plastic free drinking water
- Underground water can safely be used.
- On site sanitization of water, not having to trust in sporadic municipal sanitation systems

Using an advanced electrolysis process the e-clear oxygenator technology generates powerful natural oxidizers, hydroxyl (OH), atomic oxygen (O1), hydrogen peroxide (H2O2) and oxygen (O2) from the water molecule itself.

4 SEPERATE, ORGANIC, NATURAL, CHEMICAL FREE PROCESSES TO SANITIZE AND PURIFY WATER

Dissolved oxygen in the pool is combined with copper ionization to provide a long lasting healthy and natural sanitizing residual in the water.

Since e-clear oxidizers are more powerful than chlorine or ozone and since e-clear produces a sanitizing residual in the water e-clear pools do not require chlorine or other sanitizing chemicals.

The unique feature of e-clear is that swimmers are only exposed to the healthy sanitizing residuals – dissolved O2 and the copper ionization, since OH, O1 and H2O2 are produced within a sealed chamber away from the swimmer.

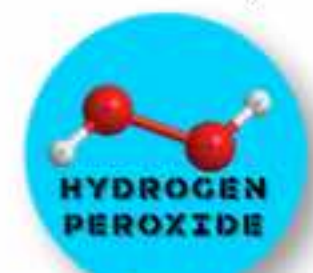
The powerful oxidizers, OH, O1 and H2O2, combined with O2 and copper, effectively inactivates algae, viruses, bacteria, yeast, fungi, protozoa and pathogens



OXYGEN



E-CLEAR PATENTED:
2003/2934



Smaller amounts of HYDROGEN PEROXIDE is produced. Readily converting back into H2O Leaving little residual effect. Can also be added as a Liquid to boost the E-Clear System



MOLECULAR OXYGEN is a powerful stable Oxidiser producing a high ORP in water. A high Oxygen Residual is maintained in the water, disinfecting and super-oxygenating The water.



The HYDROXYL ION is a very powerful yet shortlived oxidiser. Far more powerful than chlorine or ozone it quickly converts back into H2O, leaving no residual effect



ATOMIC OXYGEN an oxidant more powerful than chlorine or ozone. Quickly converts back into H2O leaving no residual effect A byproduct of the AOP PROCESS

COPPER



Developed by NASA for the Apollo missions Copper Ionization is the most effective means in destroying algae, fungi, viruses, bacteria and protozoa in water .

A low 0.5ppm residual is maintained, well below the 2.0ppm maximum level stipulated by the EC98/83 Directive for human consumption.

Since a residual of copper is maintained constantly in the water, microorganisms DNA is disrupted making them Unable to reproduce and thus are quickly eliminated

Copper is a widely accepted method of safely controlling microorganisms, without the addition of dangerous chemicals, in many industries.

SILVER



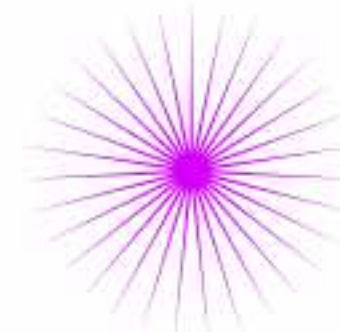
A low 50ppb residual is maintained in the water.

Silver is world's most powerful anti-bacterial agent.

An immune booster, treats psoriasis, excema, heals wounds quickly and safely. Anti-virus, anti- inflammatory, treats and prevents sinus infection and allergies. The system produces colloidal silver which can be safely drunk to promote general well being and good health.

Silver Ionization is widely accepted around the world in almost all industries and in all countries, as a safe, chemical free method of saitzation.

Silver effectively disables the DNA of Microorganisms



Approved by numerous agencies worldwide, including the US FDA As a primary means of purifying water.

Chemical free disinfection. Quick, reliable , cost effective.

Ultraviolet energy affects the genetic core of microorganisms rendering them unable to function.

More effective than chlorine in destroying microorganisms.

Helps break down oils and fats in the water.

Effectively destroys chloramine gas and prevents its production.

Kills 99.99% of algae, bacteria, viruses and protozoa suspended in the water column.

ORGANIC, SUPER-SOFT, NATURAL, SPARKLING, CLEAN OXYGEN-RICH WATER



WATER FREE OF MICROORGANISMS



WATER THAT HEALS THE BODY



WATER THAT'S SAFE TO DRINK

EQUIPMENT

REACTION

PRODUCT

CLEANSING ACTION

RESULT

CHLORINE FREE WATER ANITIZERS

- **NO Chlorine, Salt nor Ozone used**
- **For Pools, spas, jacuzzis, borehole, rainwater, ponds, fountains and wellpoints**
- **ip65 rated Control box, uPVC fittings rated up to 16 bar pressure**
- **220-240v AC Single phase 50-60 Hz power supply**
- **Electrodes need to be cleaned using a weak acid solution, every 6 months**
- **Electrodes lifespan of 1-5 years depending on usage**
- **1 year Manufacturer's warranty**
- **Oxygen Titanium Electrodes**
- **Pure Copper Ionization Electrodes**

GENERAL INFORMATION

MKX/CF-250
For Pools up to 250 m³



Electronic Control box

3 x 90mm OXYGEN STACK ELECTRODE SETS
2 x 90mm COPPER IONIZATION ELECTRODES SETS

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	6.5 Amps 50-60Hz	Max 16 Psi	0	300mg/hour	0.5ppm	Up to 0ppb	Up to 60m ³ /hour	in/out 90mm Cement

CE RoHS
Patent no. 2003/2934

MKX/CF-75
For Pools up to 75 m³



uPVC Components
Control box Depth 170mm

Electronic Control Box

Electrodes chamber

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	2.5 Amps 50-60Hz	Max 16 Psi	0	50mg/hour	0.5ppm	Up to 0ppb	Up to 20m ³ /hour	in/out 63mm Cement

CE RoHS
Patent no. 2003/2934

MKX/CF-500
For Pools up to 500 m³



2 x 4 Channel Electronic Control boxes

4 x Sets 90mm Copper Ionization Electrodes

6 x Sets 90mm Oxygen Titanium Electrodes

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	13 Amps 50-60Hz	Max 16 Psi	0	600mg/hour	0.5ppm	Up to 0ppb	Up to 120m ³ /hour	in/out 90mm Cement

CE RoHS
Patent no. 2003/2934

MKX/CF-150
For Pools up to 150 m³



uPVC Components
Control box Depth 170mm


Electronic Control Box

Electrodes chamber

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	2.5 Amps 50-60Hz	Max 16 Psi	0	100mg/hour	0.5ppm	Up to 0ppb	Up to 40m ³ /hour	in/out 90mm Cement

CE RoHS
Patent no. 2003/2934

MKX/CF-1000
For Pools up to 1000 m³



4 x 4 Channel Electronic Control Boxes

12 x Sets of Oxygen Electrodes
8 x Sets of Copper Ionization Electrodes

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	26 Amps 50-60Hz	Max 16 Psi	0	1200mg/hour	0.5ppm	Up to 0ppb	Up to 240m ³ /hour	in/out 90mm Cement

CE RoHS
Patent no. 2003/2934

CHLORINE FREE WATER ANALYZERS

- NO Chlorine, Salt nor Ozone used
- For Pools, spas, jacuzzis, borehole, rainwater, ponds, fountains and wellpoints
- ip65 rated Control box, uPVC fittings rated up to 16 bar pressure
- 220-240v AC Single phase 50-60 Hz power supply
- Electrodes need to be cleaned using a weak acid solution, every 6 months
- Electrodes lifespan of 1-5 years depending on usage
- 1 year Manufacturer's warranty
- Oxygen Titanium Electrodes
- Pure Copper Ionization Electrodes
- UVC High Spectrothermic Lamps, life 10 000 hours
- For volumes from 5 m3 to 10 000 m3

GENERAL INFORMATION

316 Stainless Steel UV CHAMBER
Depth- 450mm
4 x 55w high output UVC LAMPS

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	9 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	50mg/hour	0.5ppm	0	Up to 60m3/hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934

For Pools up to 250 m3

MKX/CF-250UV

Depth- 200mm
Weight- 7kg

316 Stainless Steel
uPvc Components
1 x 55w high output UVC Spectrotherm Lamps

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	3 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	50mg/hour	0.5ppm	0ppb	Up to 20m3/hour	in/out 63mm Cement

CE RoHS Patent no. 2003/2934

For Pools up to 75 m3

MKX/CF-75UV

8 x 55w UVC GERMICIDAL ULTRAVIOLET LAMPS

2 x 4 CHANNEL ELECTRONIC CONTROL BOXES

316 Stainless Steel UV CHAMBERS

6 x SETS OXYGEN STACK ELECTRODE

4 x SETS COPPER IONIZATION ELECTRODES

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	17 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	600mg/hour	0.5ppm	0	Up to 120m3/hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934

For Pools up to 500 m3

MKX/CF-500UV

Depth- 250mm
Weight- 11kgs

316 Stainless Steel UV CHAMBER
2 x 55w HIGH OUTPUT Spectrotherm Lamps
uPvc Components

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	3.5 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	50mg/hour	0.5ppm	0ppb	Up to 40m3/hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934

For Pools up to 150 m3

MKX/CF-150UV

12 x SETS OXYGEN STACK ELECTRODES

8 x SETS 90MM COPPER ELECTRODES

16 x UVC GERMICIDAL ULTRAVIOLET LAMPS
4 x 4 CHANNEL ELECTRONIC CONTROL BOXES

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	34 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	1000mg/hour	0.5ppm	0	Up to 240m3/hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934

For Pools up to 1000 m3

MKX/CF-1000UV

Dubai Golf City- Dubailand



Royal Palace, Saudi Arabia



Marriott Hotel, Doha



Emirates Palace Hotel

LOW CHLORINE

- A Low Chlorine Residual of 0.5ppm is retained as per municipal regulations in certain areas
- Chlorine level is undetectable to swimmers
- For Pools, spas, jacuzzis, borehole, rainwater, ponds, fountains and wellpoints
- ip65 rated Control box, uPVC fittings rated up to 16 bar pressure
- 220-240v AC Single phase 50-60 Hz power supply
- Electrodes need to be cleaned using a weak acid solution, every 6 months
- Electrodes lifespan of 1-5 years depending on usage
- Copper Ionization only
- 1 year Manufacturer's warranty

MKX/LC-250
For Pools up to 250 m³

4 channel Electronic Control box

16 x Copper Ionization Electrodes

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	2 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm ²	0mg/hour	0.5ppm	0ppb	Up to 60m ³ /hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934

MKX/LC-75
For Pools up to 75 m³

Electronic Control Box

IONIZER only

Copper Ionization Electrodes

uPvc Components Depth- 170mm

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	0.5 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm ²	0mg/hour	0.5ppm	0ppb	Up to 20m ³ /hour	in/out 63mm Cement

CE RoHS Patent no. 2003/2934

MKX/LC-500
For Pools up to 500 m³

2 x 4 Channel Electronic Control boxes Weight 50kg

16 x Sets 90mm Copper Ionization Electrodes

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	4 Amps 50-60Hz	Max 16 Psi	0	0mg/hour	0.5ppm	Up to 0ppb	Up to 120m ³ /hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934

MKX/LC-150
For Pools up to 150 m³

Electronic Control Box

IONIZER only

Copper Ionization Electrodes

uPvc Components Depth- 170mm

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	0.5 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm ²	0mg/hour	0.5ppm	0ppb	Up to 40m ³ /hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934

MKX/LC-1000
For Pools up to 1000 m³

4 x 4 Channel Electronic Control Boxes Weight 100kgs

32 x Sets of Copper Ionization Electrodes

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	8 Amps 50-60Hz	Max 16 Psi	0	0mg/hour	0.5ppm	Up to 0ppb	Up to 240m ³ /hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934

- A Low Chlorine Residual of 0.5ppm is retained as per municipal regulations in certain areas
- Chlorine level is undetectable to swimmers
- For Pools, spas, jacuzzis, borehole, rainwater, ponds, fountains and wellpoints
- ip65 rated Control box, uPVC fittings rated up to 16 bar pressure
- 220-240v AC Single phase 50-60 Hz power supply
- Electrodes need to be cleaned using a weak acid solution, every 6 months
- Electrodes lifespan of 1-5 years depending on usage
- Copper Ionization with Ultraviolet Sanitizer
- 316 Stainless Steel UV CHAMBER
- 1 year Manufacturer's warranty





Radisson Blu Spa, Grangerbay



Vineyard Hotel, Newlands



Parklands College Private School, Cape Town



Virgin Active Health Club, Steenberg

LOW CHLORINE WITH SILVER IONIZATION

- A Low Chlorine Residual of 0.5ppm is retained as per municipal regulations in certain areas
- Chlorine level is undetectable to swimmers
- For Pools, spas, jacuzzis, borehole, rainwater, ponds, fountains and wellpoints
- ip65 rated Control box, uPVC fittings rated up to 16 bar pressure
- 220-240v AC Single phase 50-60 Hz power supply
- Electrodes need to be cleaned using a weak acid solution, every 6 months
- Electrodes lifespan of 1-5 years depending on usage
- Copper and Silver Ionization
- 99.9% Pure Silver Electrodes
- 1 year Manufacturer's warranty

130mm 90mm

280mm 320mm 340mm

4 channel Electronic Control box

6 x Copper Ionization Electrodes SETS
4 x 99% Pure Silver Electrodes SETS

Weight-21kgs

CE RoHS Patent no. 2003/2934

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	2 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	0mg/hour	0.5ppm	50ppb	Up to 60m3/hour	in/out 90mm Cement

MKX/LCSI-250
For Pools up to 250 m3

200mm 250mm

IONIZER only
Set 99% Pure Silver Electrodes
Copper Ionization Electrodes

70mm 300mm

Electronic Control Box

uPvc Components Depth- 170mm

Weight- 7kgs

CE RoHS Patent no. 2003/2934

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	0.5 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	0mg/hour	0.5ppm	50ppb	Up to 20m3/hour	in/out 63mm Cement

MKX/LCSI-75
For Pools up to 75 m3

130mm 90mm

320mm 280mm 340mm

12 x Sets 90mm Copper Ionization Electrodes

4 x Sets 99% Pure Silver Electrodes

2 x 4 Channel Electronic Control boxes

Weight-42kgs

CE RoHS Patent no. 2003/2934

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	4 Amps 50-60Hz	Max 16 Psi	0	0mg/hour	0.5ppm	Up to 50ppb	Up to 120m3/hour	in/out 90mm Cement

MKX/LCSI-500
For Pools up to 500 m3

200mm 250mm

IONIZER only
Set 99% Pure Silver Electrodes
Copper Ionization Electrodes

130mm 530mm

Electronic Control Box

uPvc Components Depth- 170mm

Weight-9kgs

CE RoHS Patent no. 2003/2934

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	0.5 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	0mg/hour	0.5ppm	50ppb	Up to 40m3/hour	in/out 90mm Cement

MKX/LCSI-150
For Pools up to 150 m3

320mm 350mm 90mm

4 x 4 Channel Electronic Control Boxes

24 x Sets of Copper Ionization Electrodes

8 x Sets 99% Pure Silver Electrodes

Weight-80kgs

CE RoHS Patent no. 2003/2934

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	8 Amps 50-60Hz	Max 16 Psi	0	0mg/hour	0.5ppm	Up to 80ppb	Up to 240m3/hour	in/out 90mm Cement

MKX/LCSI-1000
For Pools up to 1000 m3

LOW CHLORINE WITH SILVER AND ULTRAVIOLET

- A Low Chlorine Residual of 0.5ppm is retained as per municipal regulations in certain areas
- Chlorine level is undetectable to swimmers
- For Pools, spas, jacuzzis, borehole, rainwater, ponds, fountains and wellpoints
- ip65 rated Control box, uPVC fittings rated up to 16 bar pressure
- 220-240v AC Single phase 50-60 Hz power supply
- Electrodes need to be cleaned using a weak acid solution, every 6 months
- Electrodes lifespan of 1-5 years depending on usage
- Copper and Pure Silver Ionization
- 316 Stainless Steel UV CHAMBER
- 1 year Manufacturer's warranty

For Pools up to 250 m³

MKX/LCSI-250UV

4 x 55w UVC GERMICIDAL ULTRAVIOLET LAMPS
6 x 90mm COPPER IONIZATION ELECTRODES SETS
2 x 99% PURE SILVER ELECTRODE SETS

1050mm
450mm
90mm
4 channel Electronic Control box
316 Stainless Steel UV CHAMBER
120mm
90mm
Weight-22kgs

LOW CH 0.5 ppm
COPPER
SILVER
UV

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	2.5 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm ²	0mg/hour	0.5ppm	50ppb	Up to 60m ³ /hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934

For Pools up to 75 m³

MKX/LCSI-75UV

980mm
63mm in
63mm out
316 Stainless Steel UV CHAMBER
63mm Copper Ionization Electrodes
1 x 55w UVC GERMICIDAL LAMP
Depth 300mm
Pure Silver Ionization Electrodes
Weight-8kgs

LOW CH 0.5 ppm
COPPER
SILVER
UV

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	1.5 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm ²	0mg/hour	0.5ppm	50ppb	Up to 20m ³ /hour	in/out 63mm Cement

CE RoHS Patent no. 2003/2934

For Pools up to 500 m³

MKX/LCSI-500UV

1050mm
480mm
2 x 4 Channel Electronic Control Boxes
8 x 55w UVC GERMICIDAL ULTRAVIOLET LAMPS
2 x 316 Stainless Steel UV CHAMBERS
90mm Pvc unions Chamber width-130mm
340mm
12 x Sets 90mm Copper Ionization Electrodes
4 x SETS 99% Pure Silver Electrodes
Weight-44kgs

LOW CH 0.5 ppm
COPPER
SILVER
UV

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	12 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm ²	0mg/hour	0.5ppm	50ppb	Up to 120m ³ /hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934

For Pools up to 150 m³

MKX/LCSI-150UV

980mm
63mm in
90mm out
316 Stainless Steel UV CHAMBER
90mm Copper Ionization Electrodes
2 x 55w UVC GERMICIDAL LAMP
Depth 320mm
Pure Silver Ionization Electrodes
Weight-12kgs

LOW CH 0.5 ppm
COPPER
SILVER
UV

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	1.5 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm ²	0mg/hour	0.5ppm	50ppb	Up to 40m ³ /hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934

For Pools up to 1000 m³

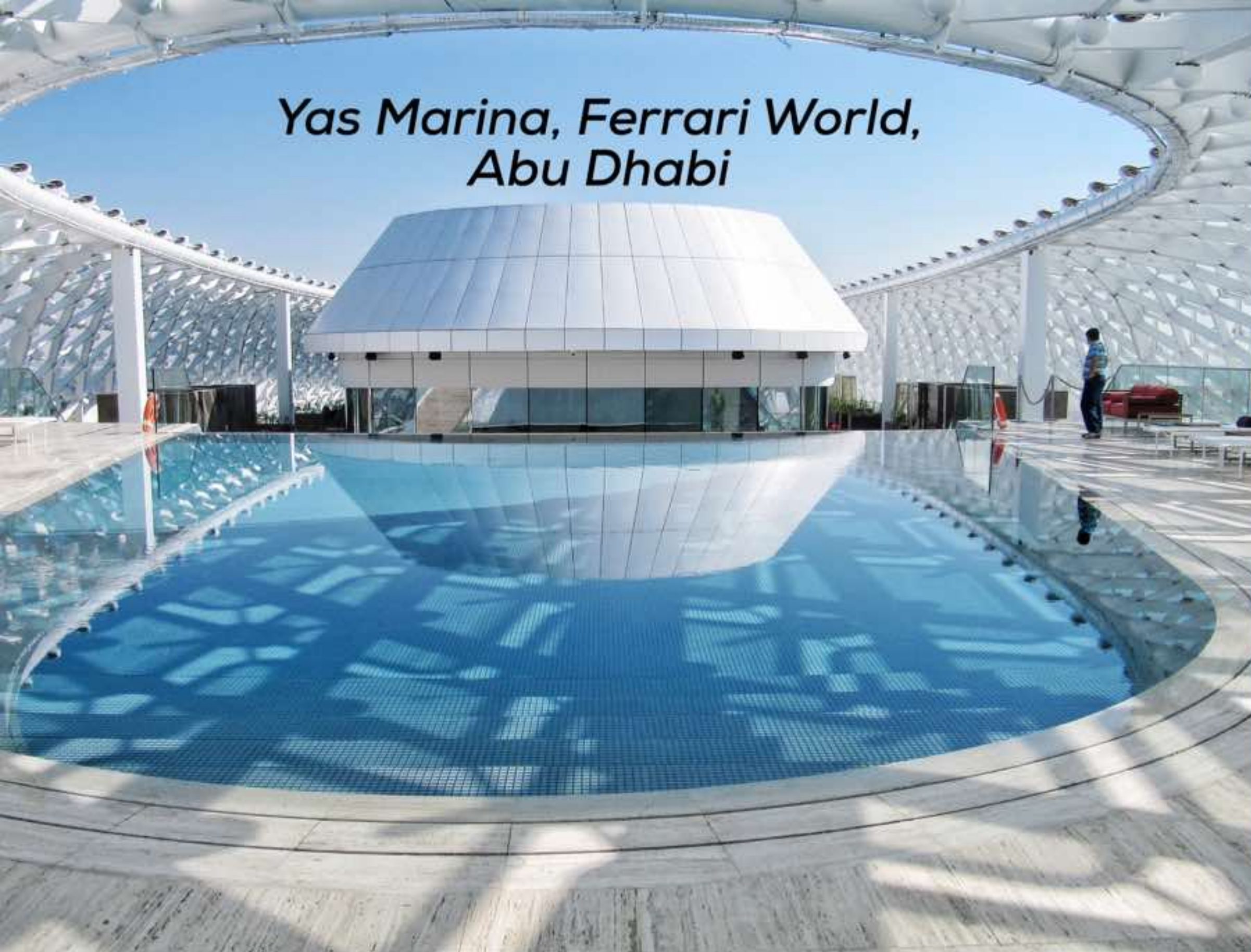
MKX/LCSI-1000UV

4 x 4 LAMP UVC GERMICIDAL ULTRAVIOLET 316 STAINLESS STEEL CHAMBERS
450mm
1050mm
350mm
90mm
24 x SETS 90MM COPPER ELECTRODES
8 x SETS 99% PURE SILVER ELECTRODES
Weight-86kgs

LOW CH 0.5 ppm
COPPER
SILVER
UV

Power	Current	Pressure	UV Dosage	O ₂ dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	24 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm ²	0mg/hour	0.5ppm	50ppb	Up to 240m ³ /hour	in/out 90mm Cement

CE RoHS Patent no. 2003/2934



*Yas Marina, Ferrari World,
Abu Dhabi*



Fancourt Hotel, George, South Africa



Palm Island Resort, Aruba



Arabian Ranches, UAE

CHLORINE FREE WATER SILEVER AND ULTRAVIOLET WATER INITIALIZERS

- NO Chlorine, Salt nor Ozone used
- For Pools, spas, jacuzzis, borehole, rainwater, ponds, fountains and wellpoints
- ip65 rated Control box, uPVC fittings rated up to 16 bar pressure
- 220-240v AC Single phase 50-60 Hz power supply
- Electrodes need to be cleaned using a weak acid solution, every 6 months
- Electrodes lifespan of 1-5 years depending on usage
- 1 year Manufacturer's warranty
- Oxygen Titanium Electrodes
- Pure Copper and Pure Silver Ionization Electrodes
- UVC High Spectrothermic Lamps, life 10 000 hours
- For volumes from 5 m3 to 10 000 m3

GENERAL INFORMATION

1020mm
550mm
90mm in/out chambers x 4
400mm
In 90mm
4 channel control box
Out 90mm
316 Stainless Steel UV CHAMBER
Depth- 450mm
4 x 55w high output UVC LAMPS
Oxygen Stack Electrodes
Silver Electrodes
Copper Electrodes
Weight-25kgs

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	9 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	50mg/hour	0.5ppm	50ppb	Up to 60m3/hour	in/out 90mm Cement

CE RoHS
Patent no. 2003/2934

OXYGEN

COPPER

SILVER

UV

NO CH

For Pools up to 250 m3

MKX/CFSI-250UV

1000mm
500mm
50mm inlet
1 x 55w high output UVC LAMP
316 Stainless Steel UV Chamber
63mm outlet
Oxygen Electrodes
Copper Electrodes
Silver Electrodes
Depth- 200mm
Weight-7.5kgs

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	3 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	50mg/hour	0.5ppm	50ppb	Up to 20m3/hour	in/out 63mm Cement

CE RoHS
Patent no. 2003/2934

OXYGEN

COPPER

SILVER

UV

NO CH

For Pools up to 75 m3

MKX/CFSI-75UV

1050mm
430mm
340mm
8 x 55w UVC GERMICIDAL ULTRAVIOLET LAMPS
2 x 4 CHANNEL ELECTRONIC CONTROL BOXES
316 Stainless Steel UV CHAMBERS
6 x SETS OXYGEN STACK ELECTRODE
2 x SETS 99% PURE SILVER ELECTRODES
Weight-45kgs

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	17 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	600mg/hour	0.5ppm	50ppb	Up to 120m3/hour	in/out 90mm Cement

CE RoHS
Patent no. 2003/2934

OXYGEN

COPPER

SILVER

UV

NO CH

For Pools up to 500 m3

MKX/CFSI-500UV

1000mm
650mm
63mm inlet
2 x 55w high output UVC LAMP
316 Stainless Steel UV Chamber
90mm outlet
Oxygen Electrodes
Copper Electrodes
Silver Electrodes
Depth- 300mm
Weight-11.5kgs

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	3 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	50mg/hour	0.5ppm	50ppb	Up to 40m3/hour	in/out 90mm Cement

CE RoHS
Patent no. 2003/2934

OXYGEN

COPPER

SILVER

UV

NO CH

For Pools up to 150 m3

MKX/CFSI-150UV

1050mm
450mm
360mm
16 x UVC GERMICIDAL ULTRAVIOLET LAMPS
4 x 4 CHANNEL ELECTRONIC CONTROL BOXES
12 x SETS OXYGEN STACK ELECTRODES
4 x SETS 90MM COPPER ELECTRODES
Weight-90kgs

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	34 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	1200mg/hour	0.5ppm	50ppb	Up to 240m3/hour	in/out 90mm Cement

CE RoHS
Patent no. 2003/2934

OXYGEN

COPPER

SILVER

UV

NO CH

For Pools up to 1000 m3

MKX/CFSI-1000UV

LOW CHLORINE ULTRAVIOLET SANITIZERS

- A Low Chlorine Residual of 0.5ppm is retained as per municipal regulations in certain areas
- Chlorine level is undetectable to swimmers
- For Pools, spas, jacuzzis, borehole, rainwater, ponds, fountains and wellpoints
- ip65 rated Control box, uPVC fittings rated up to 16 bar pressure
- 220-240v AC Single phase 50-60 Hz power supply
- ULTRAVIOLET GERMICIDAL STERILIZER
- Lamp life 10 000 hours
- Lamp should be cleaned every 6 months
- 316 Stainless Steel UV CHAMBER
- 1 year Manufacturer's warranty

ULTRAVIOLET SANITIZATION Approved by:



980mm

200mm

LOW CH
0.5 ppm
UV

E-CLEAR ON
TECHNOLOGIES

55w HIGH OUTPUT SPECTROTHERM UVC GERMICIDAL ULTRAVIOLET lamp

Depth- 250mm
Weight- 4 kgs

316 STAINLESS STEEL UV CHAMBER
uPvc fittings
Integated Flow sensor control

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	0.5 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	0mg/hour	0ppm	0ppb	Up to 20m3/hour	in/out 63mm Cement

CE RoHS
Patent no. 2003/2934

MKX/UV-55W
For Pools up to 75 m3

980mm

450mm

LOW CH
0.5 ppm
UV

E-CLEAR ON
TECHNOLOGIES

220w HIGH OUTPUT SPECTROTHERM UVC GERMICIDAL ULTRAVIOLET lamps

Depth- 400mm
Weight- 18 kgs

316 STAINLESS STEEL UV CHAMBER
uPvc fittings
Integated Flow sensor control

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	2 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	0mg/hour	0ppm	0ppb	Up to 60m3/hour	in/out 90mm Cement

CE RoHS
Patent no. 2003/2934

MKX/UV-220W
For Pools up to 250 m3

980mm

300mm

LOW CH
0.5 ppm
UV

E-CLEAR ON
TECHNOLOGIES

110w HIGH OUTPUT SPECTROTHERM UVC GERMICIDAL ULTRAVIOLET lamps

Depth- 280mm
Weight- 6 kgs

316 STAINLESS STEEL UV CHAMBER
uPvc fittings
Integated Flow sensor control

Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	0.5 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	0mg/hour	0ppm	0ppb	Up to 40m3/hour	in/out 63mm Cement

CE RoHS
Patent no. 2003/2934

MKX/UV-110W
For Pools up to 150 m3

- ULTRAVIOLET Sanitizer can be combined with Or added to existing, Primary Sanitizers, Oxidizers and Filters
- High flow rates.
- For use in Drinking water applications also
- 55w T8 UVC High Spectrothermic lamps
- Recognized and accepted worldwide as a safe form of control of bacteria, viruses, germs, algae and protozoa
- Completely safe for human consumption

RECOMMENDED EQUIPMENT FOR USE WITH E-CLEAR SYSTEMS



AUTOMATED pH DOSER

For use with All Eclear Primary Sanitizers and Ionizers

For Pools up to 1.5 Million Litres



Assembled in South Africa.

SYSTEM FEATURES

- For Pools, spas, jacuzzis, borehole, rainwater, ponds, fountains and wellpoints
- For use on Olympic sized pools
- Industrial diaphragm pump
- pH sensor lasts between 1-5 years, depending on usage
- Able to dose either Acid or Alkali
- For controlling pH on ECLEAR Pools
- Automatically injects directly into pool pipework
- uPvc fittings
- Rated to 16 bar pressure
- ip65 rated control box
- Flow rate indicator
- 1 year manufacturer's warranty
- 240v 50-60Hz
- 0.5 Amps power draw
- Water Flow rate up to 240 Kl/hour

Patent no. 2003/2934



Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	0.5 Amps 50-60Hz	Max 16 Psi	0	0mg/hour	0	0ppb	Up to 240m3/hour	in/out 90mm Cement

11/2018



AUTOMATED CHEMICAL-FREE PH CORRECTION

For use with All Eclear Sanitizers and Ionizers

For Pools up to 1.5 Million Litres



Assembled in South Africa.

SYSTEM FEATURES

- For Pools, spas, jacuzzis, borehole, rainwater, ponds, fountains and wellpoints
- For use on Olympic sized pools
- Auto air Regulator
- pH measurement driven doser
- pH correction gas safe for human Consumption
- For pH correction on ECLEAR p and drinking water systems
- Automatically injects directly into pool pipework
- uPvc fittings
- Rated to 16 bar pressure
- ip65 rated control box
- pH indicator
- 1 year manufacturer's warranty
- 240v 50-60Hz
- 0.5 Amps power draw
- Water Flow rate up to 240 Kl/hour

Patent no. 2003/2934



Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	0.5 Amps 50-60Hz	Max 16 Psi	0	0mg/hour	0	0ppb	Up to 240m3/hour	in/out 90mm Cement

11/2018



AUTOMATED OXIDANT DOSER

For use with All Eclear Sanitizers and Ionizers

For Pools up to 1.5 Million Litres



Assembled in South Africa.

SYSTEM FEATURES

- For Pools, spas, jacuzzis, borehole, rainwater, ponds, fountains and wellpoints
- For use on Olympic sized pools
- Industrial diaphragm pump
- Timer/Volume driven doser
- Able to dose hypochlorite, peroxide, bromine
- For primary oxidation on ECLEAR Ionizer-only Pools
- Automatically injects directly into pool pipework
- uPvc fittings
- Rated to 16 bar pressure
- ip65 rated control box
- Flow rate indicator
- 1 year manufacturer's warranty
- 240v 50-60Hz
- 0.5 Amps power draw
- Water Flow rate up to 240 Kl/hour

Patent no. 2003/2934



Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	0.5 Amps 50-60Hz	Max 16 Psi	0	0mg/hour	0	0ppb	Up to 240m3/hour	in/out 90mm Cement

11/2018

REPLACEMENT PARTS FOR USE WITH E-CLEAR SYSTEMS



90MM OXYGEN STACK ELECTRODE SET

To fit all MK-150, MK-250, MK-500, MK-750 and MK-1000 model E-Clear systems from 2014- present



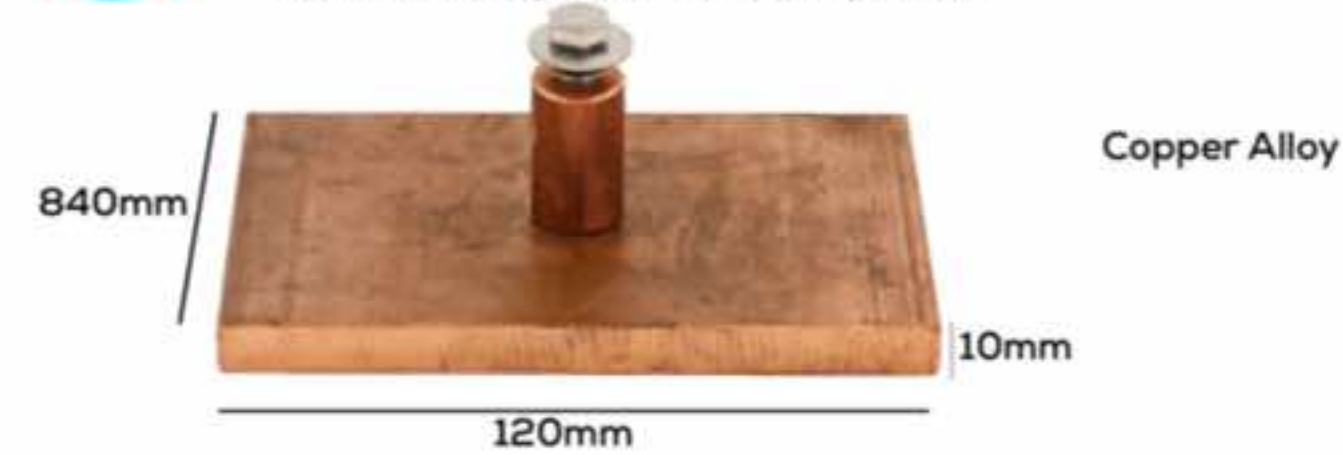
WEIGHT: 200g

Assembled in South Africa.



90MM PURE COPPER ELECTRODE

To fit all MK-150, MK-250, MK-500, MK-750 and MK-1000 model E-Clear systems from 1996- present



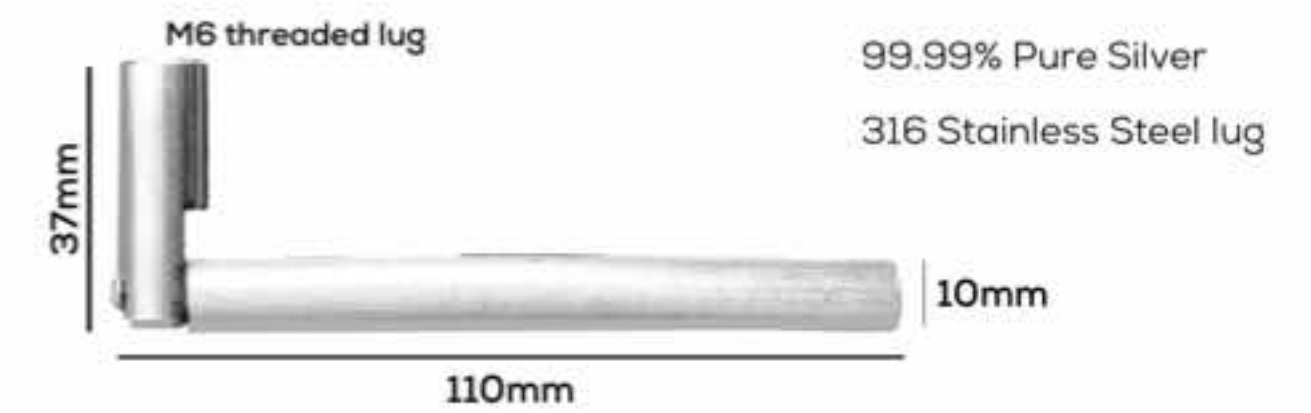
WEIGHT: 800g

Assembled in South Africa.



SILVER ELECTRODE

To fit all MKX model E-Clear systems



WEIGHT: 80g

Assembled in South Africa.



63MM OXYGEN STACK ELECTRODE SET

To fit all MK-63 model E-Clear systems from 2014- present



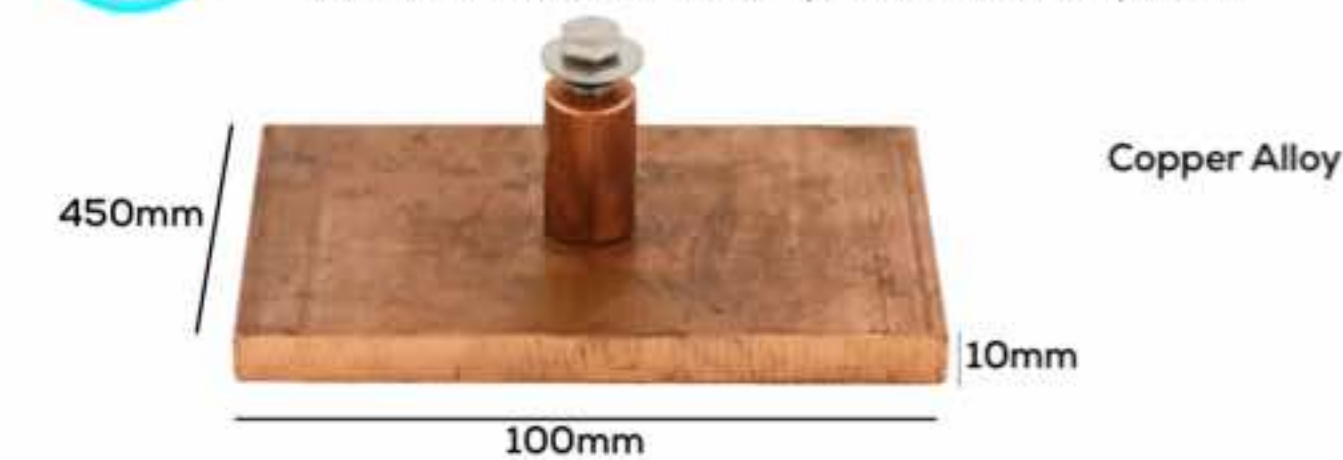
WEIGHT: 150g

Assembled in South Africa.



63MM PURE COPPER ELECTRODE

To fit all MK-75 model E-Clear systems from 1996- present



WEIGHT: 400g

Assembled in South Africa.

POLYSHEEN BLUE
To clear cloudy water in E-CLEAR pools



CLARIFIER

Used in order to achieve maximum water clarity in E-CLEAR pools where sand filtration is inadequate

15ml treats 10 000L

VOLUME: 500ml

Shelf life 3 months once opened

Assembled in South Africa.



55W ULTRAVIOLET LAMP

To fit all E-Clear systems from 1996- present



WEIGHT: 100g

Assembled in South Africa.



COPPER TEST KIT

To test copper residual in E-CLEAR pools



Shelf life 2 years once opened

WEIGHT: 100g

Assembled in South Africa.

CALCIUM TEST KIT

To test calcium level at start-up in E-CLEAR pools



Shelf life 2 years once opened

Used in order to achieve proper conductivity at start-up of E-CLEAR pools

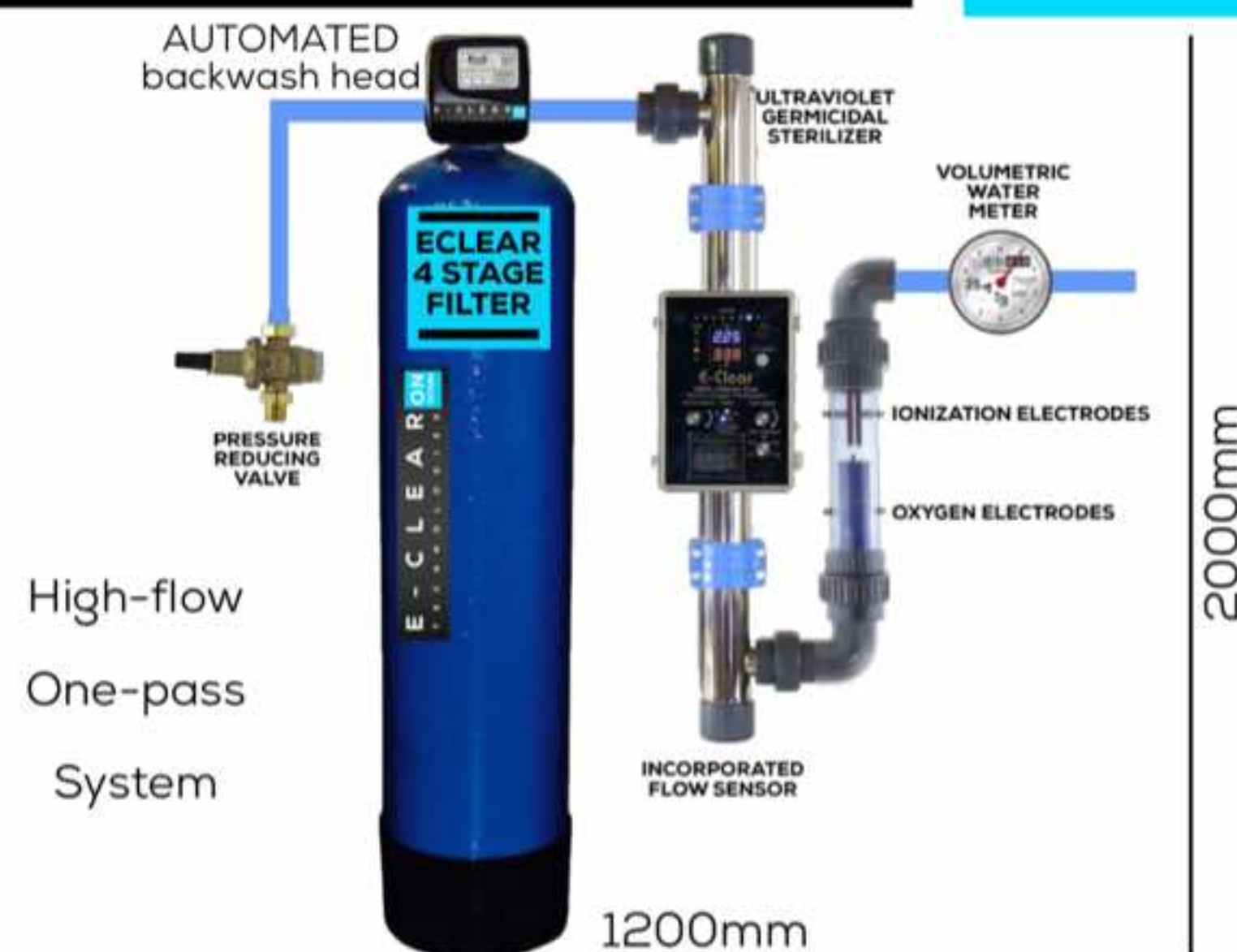
WEIGHT: 100g

Assembled in South Africa.

E-CLEAR ECO-FUSION™

Drinking Water Sanitizer

For homes with up to 6 bathrooms
Or 35L/m



Weight-80kgs

Width- 1200mm

Height- 2000mm

Depth- 300mm

System must be protected
From sun and rain

Assembled in South Africa.

SYSTEM FEATURES

- For Rainwater, Borehole, Wellpoints, Municipal, Seawater and River water
- Supply up to 2kl per hour
- For removal of micro solids, chlorine, taste, smell, microbiological fouling, bacteria and some colour.
- Incorporates full sized E-CLEAR MKX/CF-75UV
- No need to add harmful oxidizing chemicals, like chlorine, to sanitize the water to kill bacteria
- uPvc fittings
- Rated to 16 bar pressure
- ip65 rated control box
- Flow rate indicator
- 1 year manufacturer's warranty
- 240v 50-60hZ
- 3.5 Amps power draw
- Water Flow rate up to 35L/m

Patent no. 2003/2934



Power	Current	Pressure	UV Dosage	O2 dosage	Copper Dosage	Silver Dosage	Flow	Connection
220-240v AC Single Phase	3.5 Amps 50-60Hz	Max 16 Psi	30 000 uW/cm2	50 mg/hour	0.5 ppm	0ppb	Up to 35L/m	in/out 32mm Cement

11/2018

DRINKING WATER SOLUTION

Chemical Free Safe Drinking Water. Free of Micro-Plastics

The eClear Eco-Fusion Whole House Drinking water system, incorporates the worldwide patented eClear Organic Water Sanitizer. Sold in over 70 countries globally. Trusted for 23 years to deliver chemical free water sanitization and purification.

The Eco-Fusion delivers super high flow, high volume, sparkling clean water for your entire property, from toilet to kitchen, shower, garden, washing machine and of course drinking water.

Filters rated up to 400 000L or 1 year depending on source water quality.

There is no, more complete system available to clean the mains water to your entire home, delivering class leading performance and value for money.

27 000 installations in 70 countries is all the proof you need!

Cleans borehole, rainwater and municipal to drinking water quality for the entire home

The Eco-Fusion system does not remove Heavy metals or Hardness from the source water. These filters can be added onto the Eco-Fusion System Separately

"The wars of the future will be fought over blue gold."



***A report from the office of the
US Director of National Intelligence:***

***said the risk of global conflict over water
would grow as water demand is set to outstrip
sustainable current supplies by 40 per cent by 2030.***

***"Water scarcity is an issue exacerbated by demographic pressures,
climate change and pollution,"
said Ignacio Saiz, director of Centre
for Economic and Social Rights.***

***"People have the right to expect access to a basic
life resource like water
by virtue of being human, regardless of the
social situation they are born into,"
Saiz said. "Alongside the worrying development
of water scarcity, I am hopeful that we will see
increasing struggles to see access to water
as a right, and not a privilege!"***

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