

# HKE CLEAN On-Site Disinfectant Generator

## Toxic Free Solution



### TCK-200X

Disinfectant Generator

Hypochlorous acid, also called HOCl stands as the most powerful oxidant within the chlorine family, and it occurs naturally in the white blood cells of all mammals. It plays a vital role in the immune system by effectively neutralizing pathogens through oxidation and chlorination processes. HKE CLEAN disinfectant generators utilize an exclusive,

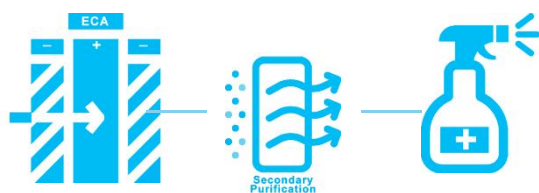
self-developed technology backed by more than 20 patents. Through an electrochemical process involving the electrolysis of salt and water, these generators produce a high-quality hypochlorous acid disinfectant solution. This solution is both water-soluble and highly effective as a disinfectant, boasting the added advantage of being non-toxic.

### ADVANCED ECA TECHNOLOGY

### Replacing Your Traditional Cleaners and Disinfectants



In the past, disinfectants produced through ECA often exhibited impurities, including incomplete electrolysis by-products such as Chlorite, which presented potential safety risks and concerns.



TCK-200X addresses this issue by incorporating a distinctive purification technology that selectively retains safe elements while eliminating harmful substances, including by-products. This innovation significantly enhances the safety profile of our disinfectants.

### WHY USE HKE CLEAN

HKE CLEAN is an environmentally-friendly disinfectant with versatile applications across various industries, effectively eliminating bacteria and minimizing disease transmission risks. Our disinfectant generators cater to the food processing industry, agriculture, aquaculture, husbandry, and more, offering a cost-effective, non-toxic, and user-friendly disinfection solution.



## Eco Friendly Disinfectant Generator

Our on-site generation technology is revolutionizing the paradigm of eco-friendly cleaning solutions while enabling companies to leave behind the hazards associated with toxic sanitizers. This innovation not only enhances safety but also saves time and money.

## Effortless Efficiency and Streamline Processes

### One Click is All It Takes!

Streamline your processes with a single click, allowing you to allocate manpower to more critical tasks.



### Fully Automatic

Our system features automatic water level detection, replenishment, and shutdown, offering a high-level of automation that ensures precision throughout every stage of operation.

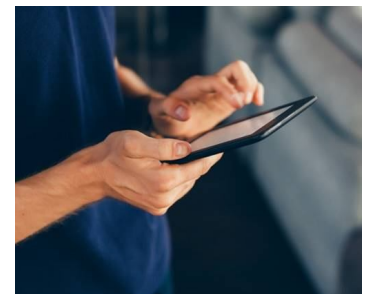
## Uninterrupted Operation and Quality Assurance

### Ensure Uninterrupted Operation for 20 Hours a Day

Our commitment to excellence extends beyond just maintaining consistent quality; it encompasses ensuring smooth and uninterrupted operation for up to 20 hours a day. We achieve this by ensuring an adequate disinfectant supply and upgrading our hardware equipment for long-term, hassle-free operation.

### Online Monitoring for Peace of Mind

Our system is equipped with a state-of-the-art online monitoring system. Any abnormal values are promptly notified to our background system and simultaneously, WhatsApp Messenger receives anomalous messages, enabling us to identify and address issues in advance, thus preventing factory shutdowns.



## High-Efficiency, Low-Cost Production

1 Ton Water + 2 L Salt =

1 Ton Disinfectant (200ppm)



TCK-200X offers cost-effective, high-capacity production, generating 1 ton of 200ppm disinfectant from just 1 ton of water and 2 liters of salt.

## 1 Ton for NT\$22!

With the TCK-200X, you can produce 1 ton of 200ppm disinfectant per hour, costing only NT\$22 in raw materials!

Raw Material	Consume	Price (NTD)
Water	1 ton	NT\$11
Salt	2 liters	NT\$3.5
Electricity	2.5Kwh	NT\$7.5
	Total	NT\$ 22

\* Calculated by the actual charges in Taiwan

## Achieving a 99.9% Disinfection / Sterilization Rate



Human coronavirus, Enterovirus 71, Candida albicans, Aspergillus flavus, Penicillium pinophilum, Aspergillus niger, Clostridium sporogenes, Staphylococcus aureus, Streptococcus thermophiles, Pseudomonas aeruginosa, Listeria monocytogenes....

## Versatile Applications!

Spatial Sterilization <b>92%</b>	Deodorization <b>96%</b>
Pesticide Removal <b>78.8%</b>	Formaldehyde Removal <b>99.9%</b>

\* Test reports are available upon requested

## Improve Your Disinfection Procedures

	TCK-200X	Traditional
Learning burden	Just one click Anyone can operate it	Complicated operation Increase the burden of frontline work
Automation	Uninterrupted operation Online monitoring	Manual operation of dilution & handling
Disinfectant	Purification process, healthy workplace	There may be by-products and substance
Labor Costs	No dilution or handling	Manual handling and dilution
Maintenance	High specification components	Low specification High maintenance cost

## Versatile Applications across Various Industries



### Food processing

Surface Disinfection is safe for use on vegetables and does not leave harmful residues.



### Plant breeding

Create a controlled environment for breeding plants and ensure the cleanliness of the facility.

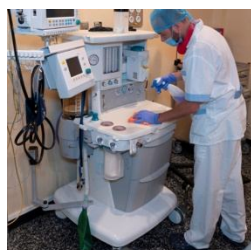
### Bottle washing

Disinfect bottles and containers used in various industries, such as beverage production or pharmaceuticals.



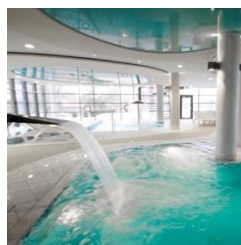
### Cooling tower

Prevent the growth of harmful microorganisms in cooling tower water to maintain system efficiency.



### Hospital cleaning

Create a disinfectant solution suitable for hospital surfaces, equipment, and rooms.

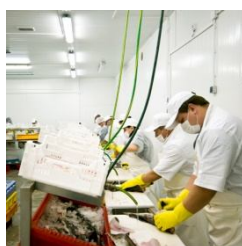


### Swimming pool

Treat swimming pool water to eliminate harmful bacteria and viruses, ensuring safe swimming conditions.

### Fish processing

Disinfect all surfaces, including cutting tables, knives, and processing equipment, to prevent cross-contamination.



### Husbandry (Livestock)

Disinfect animal housing, feeding equipment, and water sources to prevent the spread of diseases among animals.



### Aquaculture

Use the disinfectant to treat water in aquaculture systems to control disease outbreaks and maintain water quality.



### Water treatment

Generate disinfectant solutions to kill or inactivate harmful microorganisms, such as bacteria and viruses, in water sources.

## Specification

Size (cm) / Weight (kgs)	150 (L) x 85 (D) x 180 (H) / 150 kgs (N.W.); 200 kgs (G.W.)
Maximum Operating Hours	20 hours/ day
Concentration	100ppm – 1000ppm (adjustable)
Capacity	1 ton/ hours (200ppm)
Water Demand	1 ton/ hours
Salt Demand	2 liters/ hours
Space Requirement	25 square meters
Installation Environment	220V 3-phase, WiFi, Water
Standard Deployment	Generator x 1, brine stirring x 1, storage barrel (1 ton) x 1

