

AutoZEN

HOCI manufacturing machine Instructions

It's okay with just water! The manufacturing method is simple.

Make sterilized water quickly and easily.

7" TFTLCD makes it easy to operate.





Hello.

We're **IWIN**, a company that thinks about customers first.

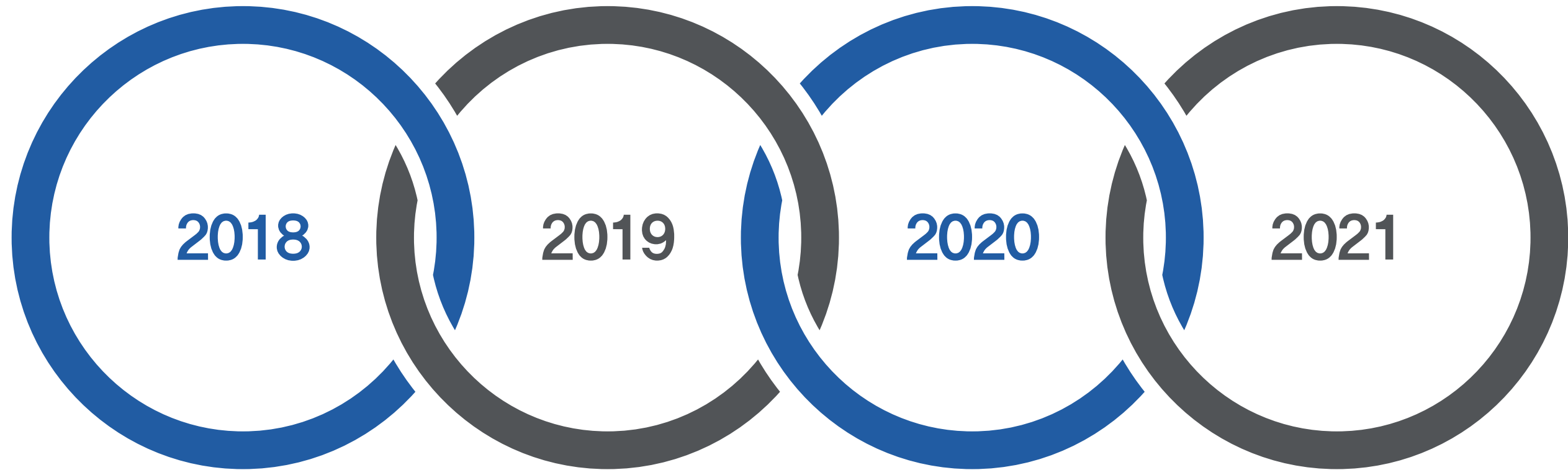
Starting with the development of various embedded systems and raw liver, IWIN has developed and **sold its own slightly acidic hypochlorous acid water generator under its own brand**, which is gradually expanding its use range, such as food hygiene management, crop disease sterilization, and infection prevention in hospitals.

In the critical era of hygiene, disinfection and sterilization, we will do our best to 'WIN WIN' with customers with **eco-friendly sterilization water generation technology** using microacidic hypochlorous acid water generator.

IWIN CEO
Seunghyeon, Lee

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2018

2019

2020

2021

2018.10

- Established IWIN
- H&Care Co., Ltd. Electrolytic Sterilization Water Controller and Hydrogen Water Tumbler Controller Production
- EOS Hitech Co., Ltd. Ion Water Heater Controller Production

2019.01

- Kyung-eun F&B Co., Ltd. Fermenter Conveyor Mass Production

2019.12

- Patent Registration of 'IoT tumbler for hydrogen water generation and drinking management and information provision system using it'

2020.04

- 'Electric car seat for toddlers' patent registration

2020.06

- Slightly acidic hypochlorous acid water generator Product Development

2020.10

- 2 patents filed for slightly acidic hypochlorous acid water generator

2021.03

- SM Unit Co., Ltd.:Development and production of electric scissors and alpine controllers

2021.10

- slightly acidic hypochlorous acid water generator AUTOZEN KC certification
- slightly acidic hypochlorous acid water generator AUTOZEN8 electromagnetic compatibility certification

2021.11

- AUTOZEN CE certification

Dear customer

Thank you for purchasing our products.

Please read this manual carefully to ensure proper use of the product.

- If you have any inquiries during use, or in the event that this product doesn't function properly, refer to this manual.
- We assume no responsibilities for any accidents arising out of improper use of this product as specified in the manual
- Keep the manual as well as the warranty in a safe place so it will be handy when you need it the next time.

Product characteristics

CPU built-in, fully automated system.

All operations of the product are controlled by a semiconductor CPU that automatically finds optimal operating conditions using the flow rate and the measured current value.

Automatic water outlet control

Pressing the touch button can release water or stop the flow of water.

Voice announcement.

Various functions and safety warning voice guidance make it safe and convenient to use.

Indication and notification of electrolyte replacement

This product informs you that you can replace it through alarm and voice guidance when the electrolyte is all used up.

Business

Precautions before Use



Never use the water that comes out of the product for drinking as it is sterilizing water, not drinking water with non-acidic hypochlorous acid



Install horizontally in a place where there is no risk of vibration or impact.
Avoid installation in hot and humid places with room temperature below zero or above 40 degrees.
Avoid places that receive direct fire and direct fire and direct sunlight.



Since the electrolyte contains a small amount of hydrochloric acid, corrosion can easily occur when the electrolyte comes in contact with metal. Care with handling, and wash with running water when contaminated with electrolyte.



Please install it out of reach of children.



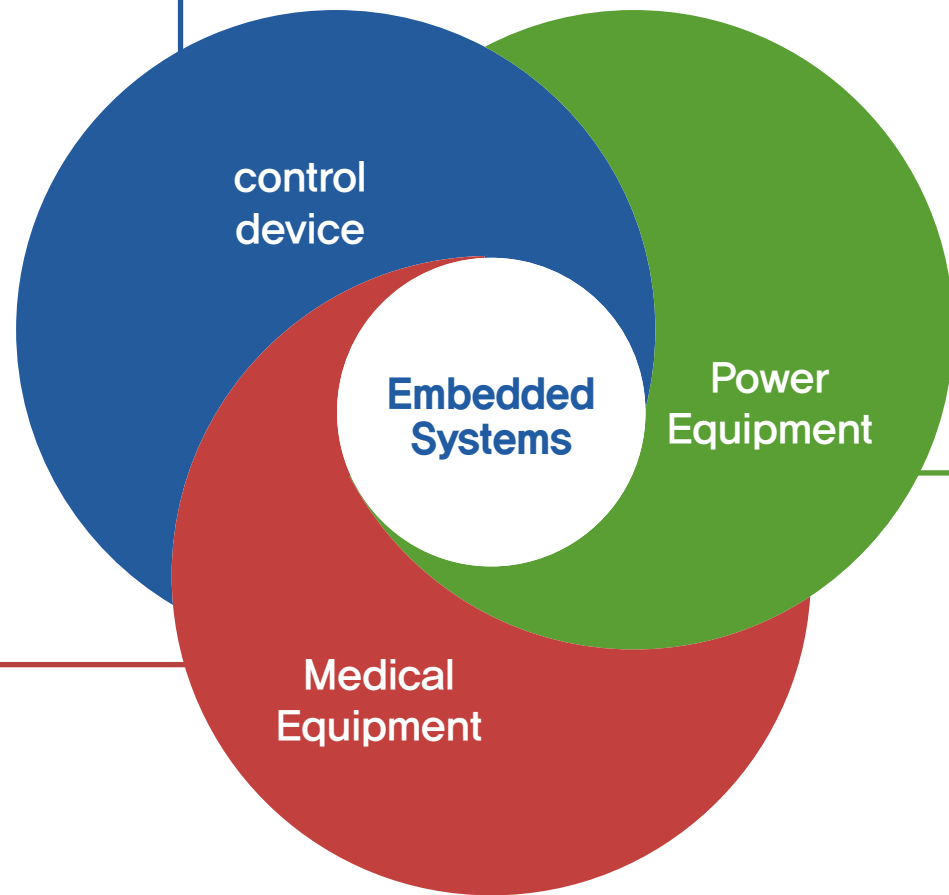
In case of contact with the human body while handling the electrolyte, wash it with running water



A small amount of chlorine gas is generated during the production of electrolytic sterilization water, so please install it in a well-ventilated place

Embedded Systems Development History

- Valve controllers for boilers
- Fermenter controllers
- Deck oven, convection oven controller
- Gas and electric fryer controllers
- Coolant mist injector
- CO2 sensor
- Ventilation mood light (AirWatch) controller
- LED POWER CONTROLLER
- Multi-power controller for UV curers
- Fire pump controllers
- Sealing machine controller
- Hydrogen water tumbler controller
- Electrolyzer controllers



- Orthopedic Exercise Devices (CPM)
 - SHOULDER CPM
 - KNEE CPM
 - ANKLE CPM
- Alkaline ionizer controller
- Portable for menstrual cramps/muscle pain relief
- Combination stimulator

- Overcurrent protection relays (OCR)
- Digital Protection Relays (DPRs)
- Fault Interval Automatic Relay (ASS)
- Overcurrent protection relays for RMUs
- High-speed relay OCR
- Arc Protection Relay (APR)
- Automatic Load Switching Switchgear (ALTS)
- High-Brad Street Light Monitoring
- System

Major R&D history and status of national task implementation

Year	Project Name	Remarks
1999~2003	Computer automatic embroidery controller development	Sunstar
2005	Developing OCR for Low-Pressure Crane Breakers	Small and Medium Business Technology Innovation Challenges
2006	Development of harmonic movement apparatus and controller design technology	Industry-academia joint technology development: Chungbuk University
2008	Shoulder CPM Development Development of Mechanical Control Embedded System for Medical Use	Changmyung Control Technology Regional Industrial Common Technology Development Project (06~08)
2009	Knee CPM Development	Changmyung Control Technology
2010	Development of valve controllers for boilers Developing a Simple Shoulder CPM	Daesung Celtic Energies Co., Ltd. Changmyung Control Technology
2011	Development of Solar Environmental Monitor Controller and Communication System Solar controller development	Sehwa Energy Industry Co., Ltd. Daesung Celtic Energies Co., Ltd.
2012	Developing OCR for High Speed Relay OCR and RMU Development of hybrid upper limb motor devices utilizing vital signs	LS SAN Co., Ltd. Small and medium-sized enterprises technology innovation development project (10~12)
2013	Elbow CPM Development Sealing Machine Controller Development Development of VCB TRIP Controller for Mining – For Export Development of Foothold Disturbance Applied Dynamic Posture Balance Training/Evaluation System Fire pump controller development	Changmyung Control Technology Orbit Co., Ltd. 中国樂高有限公司 Small and Medium Enterprises Technology Innovation Development Project(12~14) Joe Eun Jump Co., Ltd.
2014	Develop an ARC Protection Relay ALTS Intelligent Automatic Load Transition Switchgear Development Development of SVC reactive power compensation device	LS Prenatal Co., Ltd. LS Prenatal Co., Ltd. Changmyung Control Technology
2015	Ankle CPM Development Developing a simple Knee CPM SVRS Energy Saving Device Development LG Electronics Incense CO ₂ Sensor Development Development of circular ionizer Multipower development for UV curing machines	Changmyung Control Technology Changmyung Control Technology Changmyung Control Technology Acen EOS Hitech Co., Ltd. M vision Co., Ltd.
2016	Solar battery chargers and remote monitoring systems	Chungbuk University LINC Business
2017	Development of knee rehabilitation treatment device equipped with therapeutic assistant photographic device Rotary oven controller development	Creative Fusion R&D: Ministry of Industry, Trade and Resources Daeheung Soft Mill
2019	Development of Agricultural Sterile Water Maker Controller	EOSHyltech
2020	Development of hypochlorous acid water generator	IWIN
2021	Development of electric scissors and alpine scissors	SM Units



Eco-friendly sterilization

- New concept sterilization technology that sterilizes only with water
- No additional detergents or chemicals required
- Reduced to plain water after bactericidal action and no 2nd degree of contamination

Powerful bactericidal effect

- Removes 99.9% of bacteria, viruses, bacteria, and fungi such as salmonella and Staphylococcus aureus
- Completely kills almost all germs in less than 30 seconds to 10 minutes

Strong disinfection of food materials & Cleaning effect

- Toxicity such as chloroform, trihalomethane is not produced when sterilized
- Eliminate pesticides and food poisoning bacteria
- No odor and does not affect the original tissue and taste of the food

Powerful deodorizing effect

- Powerful oxidizing power sterilizes putrefactive bacteria to purify the air and remove odors

Convenience and affordability

- All you need is water is OK, the manufacturing method is simple
- Quickly and easily sterilized
- No noise and vibration during sterilization
- Unlike lax or high concentration hypochlorite-based fungicides, it does not cause depigmentation and metal corrosion of the cleaning material
- Sterilized by non-heating method, eliminating container deformation of glass and plastic
- Can be used semi-permanently

Excellent safety

- Can be used as safely as tap water
- Uses low voltage (DC2V to 48V) which is safe for the human body, unlike traditional electrolysis methods
- Unheated sterilization method does not produce environmental hormones
- Passed all toxic, irritating, and carcinogenic tests conducted by the Institute of the Ministry of Health, Labor, and Welfare of Japan
- HOCl is approved as a food additive and certified for safety

What is slightly acidic hypochlorous water?

Safe disinfectant approved as a food additive

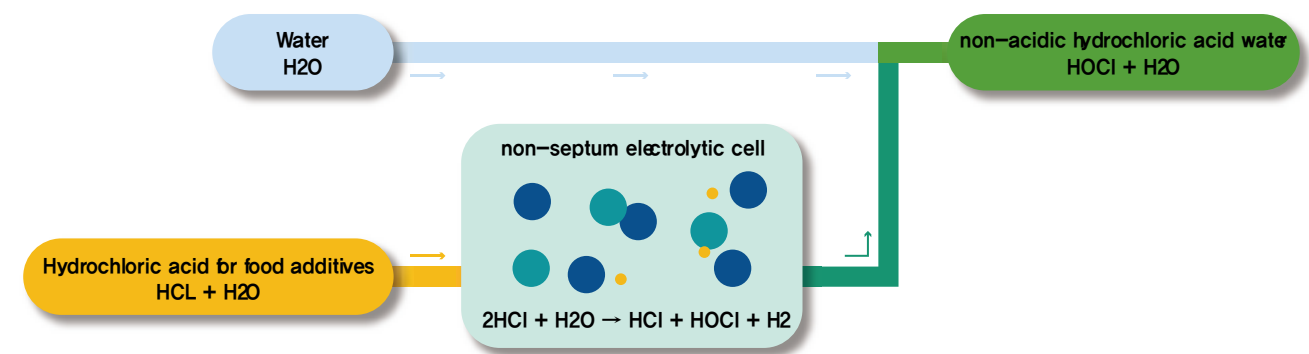
HOCl(hypochlorous acid) is a substance with strong bactericidal properties that is produced when diluted hydrochloric acid (HCl) is electrolyzed in a septal electrolyte.
 With a pH5-6.5, a low concentration of effective chlorine 10-30 ppm, it exerts strong bactericidal properties and is a safe disinfectant that was approved as a food additive by the Ministry of Food and Drug Safety in November 2007.



Principle of slightly acidic hypochlorous acid (HOCl) water generator

Generated by electrolysis of tap water

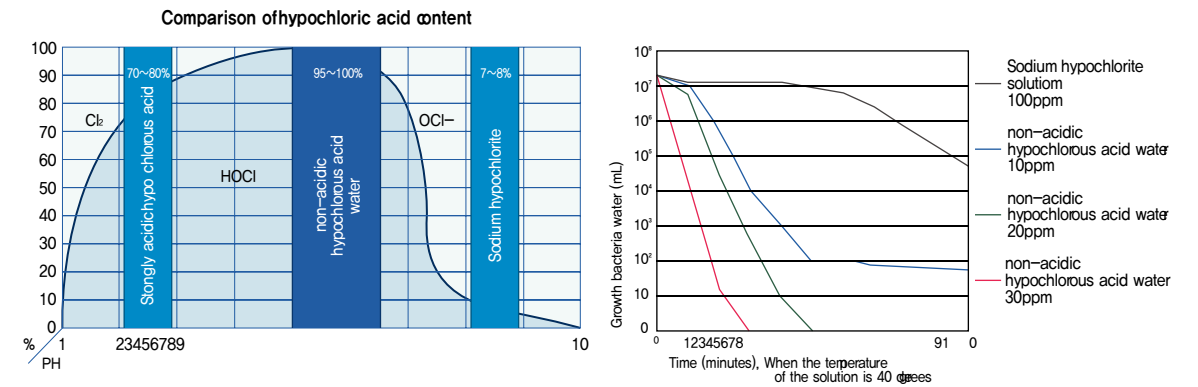
Tap water containing trace amounts of chloride ions (Cl-) is electrolyzed into a septum-free electrolyte to produce hypochlorous acid (HOCl).
 If necessary, a dedicated hypochlorous acid producer can also be added to produce high concentrations of hypochlorous acid water (increasing the bactericidal power in the treatment of highly contaminated areas)



Difference from other disinfectants

Safe and strong sterilization power

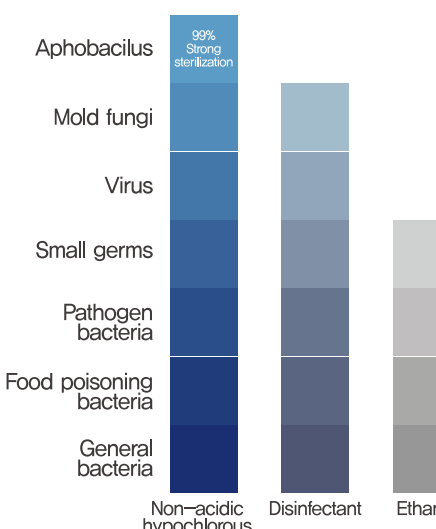
slightly acidic hypochlorous acid (HOCl) and sodium hypochlorite (Chlorine bleach, NaOCl) are completely different products. While HOCl sterile water is safe for users and the environment, side effects such as irritation, testicular cancer, skin cancer, and burns have been reported from sodium hypochlorite. The sterilizing power of HOCl sterilizing water is 80 times stronger than that of sodium hypochlorite, as shown in the test result below.



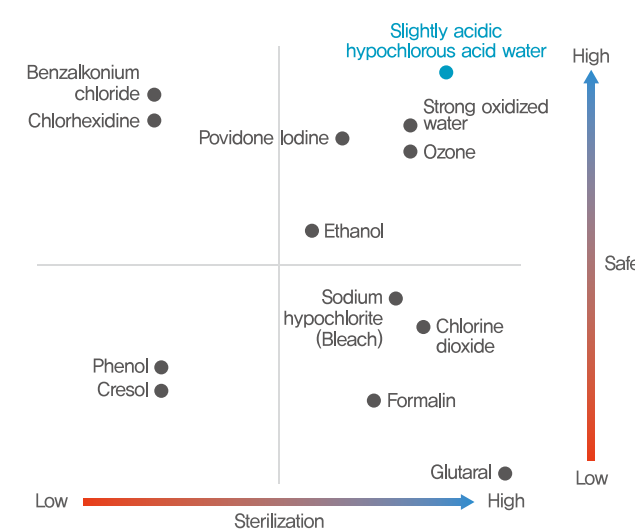
*Jpan Food Analysis Center in 2002 - Comparison of sterilization power of HOCl concentration (30ppm, 20ppm, 10ppm) and sodium hypochlorite (100ppm)

Comparison of sterilization power and safety

HOCl's strong sterilization power



Comparative evaluation of sterilization power and safety

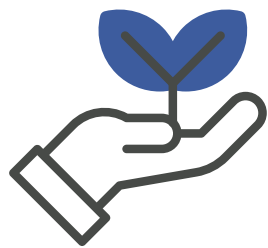


Applications	application examples	Use cases
Food manufacturing Group cafeteria 	Fresh vegetable production, Overall organic food manufacturing, Schools, corporations, government offices, hospitals, military bases, hotels, restaurants, etc.	Sterilization of food ingredients, removal of pesticide residues Hand sanitizer, kitchen equipment, Washing utensils, dishes, drains, sterilization and disinfection Indoor kitchen, bathroom sterilization and deodorization
Agriculture 	Agriculture Facility cultivation (Strawberry, cucumber, tomato, lettuce, etc.) Fruit tree	Substitute fungicides (Spray on leaves and stems), Eco-friendly agriculture, Seed sterilization, Sterilization of harvested fruits and vegetables
Livestock 	Barns and dairy cow	Spray barns for disinfection and deodorization Instrument equipment disinfection, Sterilization of various viruses, such as foot-and-mouth disease and pig cholera, Sterilization, disinfection and, deodorization of slaughterhouses
Medical treatment 	Hospital, dentistry, veterinary hospital	Hand disinfection, gargle, body disinfection, and instrument sterilization, Disease management, wound disinfection, treatment for burn and atopy, Indoor air purification and deodorization
Air purification 	School, daycare center, kindergarten, postpartum care center, nursing home Restaurant, cafeteria, food factory, mart Closed places such as movie theaters	Indoor air purification Air purification in multi-use facilities
Home 	Kitchen, bathroom, kids room, bedroom, living room refrigerator, shoe cabinet, the interior of a car	Kitchenware, dish sterilization and cleaning, removal of food material residue pesticide Air purification and deodorization of Kitchen and living room, sterilization and deodorization of toilet Sterilization of toothbrush, baby bottles, baby products, toys Sterilization of bedding products, removal of residual detergent, etc.

Product

"AUTOZEN" is...

It is a direct-water type hypochlorous acid water manufacturing device that is an eco-friendly sterilization, deodorization, and disinfecting water.

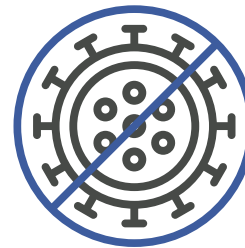


Eco-friendly sterilization

After bactericidal action, it is reduced to ordinary water and 2nd degree of pollution!
New concept sterilization technology sterilization technology that sterilizes only with water No need to add separate detergents or chemicals!

Powerful bactericidal effect

Eliminates 99.9% of all bacteria, viruses, and bacterial fungi such as Lemonella, Staphylococcus aureus, etc.!



Disinfection and cleaning effect of food materials

No toxic substances such as chloroform, trihalomethane are produced when sterilized!
No odor and no impact on the original tissue and taste of the food!
Eliminate residual pesticides and food poisoning bacteria!

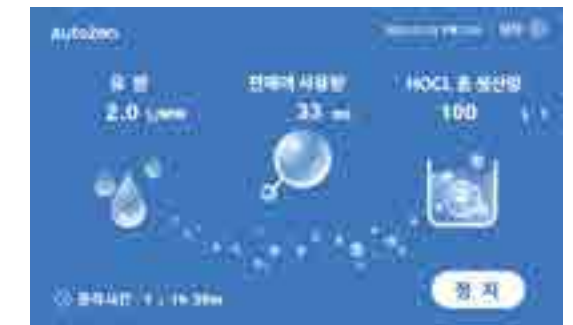
Slightly acidic hypochlorous acid water generator for homes and small businesses



AutoZen7

- 7-inch touch LCD display for convenient operation and operation status check
- Reliable hypochlorous acid water preparation using patented diaphragmatic electrolyzer
- Easy and reliable electrolyte cylinder replacement
- Constant current control to maintain constant pH and residual chlorine regardless of flow rate
- Operation status voice notification

Ease of operation

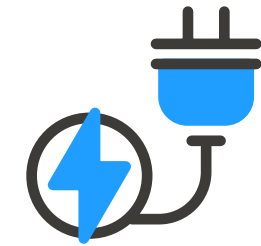


- Easy to operate with 7" TFTLCD and touchpad, easy to check the operating status and operation status of the instrument
- Display flow rate, electrolyte usage, total HOCL production and instrument operating time
- Operation progress display and voice notification function, watch display when not in use

Convenience of Entering water Out water connection



Ease of replacement of 1L electrolyte cylinder



Discharge volume 2L/min, 18 hours of use at 30 ppm of residual chlorine



AutoZen 7

- It's okay with just water! The manufacturing method is simple.
- Make sterilized water quickly and easily.
- 7" TFTLCD makes it easy to operate.

Application Cases



Vehicle air conditioning sterilization
Deodorizing effect



Sink
Deodorizing effect



Sterilization of food ingredients and
Removal of residual pesticides



Table
Deodorizing effect



Pets
Deodorizing effect



Bathroom
Deodorizing effect

Spec.

Product		slightly acidic hypochlorous acid water generator
Model		AUTOZEN 7
Rated power supplies		220-240V ~ / 50-60Hz
Water supply method		Direct Type
Noumenon	Measurements	340×340×150(W×H×D)mm
	Weight	Approx. 5kg
Allowable water pressure		100 ~ 500 kPa
Allowable temperature		5 ~ 40°C
Electrolysis device	Electrolysis method	Continuous electrolysis
	Allowable frankincense	1.0~2.5L / min
	Electrode	Iridium / Titanium
Electrolytic sterilization water	pH	5 ~ 6.5
	Effective chlorine concentration(pp)	10 ~ 50
	Amount of production (L/min)	1.0 ~ 2.5L / min
	Electrolyte	6% HCL 1L



Bedding, furniture, sofa
Deodorizing effect



Drainage
Deodorizing effect



Other spaces, products, etc.
Deodorizing effect

Slightly acidic hypochlorous acid water generator for Businesses



AutoZen8,10

- 7-inch touch LCD display for convenient operation and operation status check
- Reliable hypochlorous acid water preparation using patented diaphragmatic electrolyzer
- Easy and reliable electrolyte cylinder replacement
- Constant current control to maintain constant pH and residual chlorine regardless of flow rate
- Operation progress indication and voice notification, clock display when not in use

Ease of operation

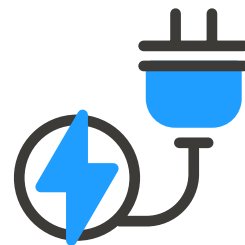


- Easy to operate with 7" TFTLCD and touchpad, easy to check the operating status and operation status of the instrument
- Display flow rate, electrolyte usage, total HOCL production and instrument operating time
- Operation progress display and voice notification function, watch display when not in use

Convenience of Entering water Out water connection



Ease of replacement of 20L electrolyte cylinder



Can be used for 130 hours based on 5L/min of water output and 30ppm of residual chlorine



AutoZEN 8,10

- It's okay with just water! The manufacturing method is simple.
- Make sterilized water quickly and easily.
- 7" TFTLCD makes it easy to operate.

Spec.

Product		slightly acidic hypochlorous acid water generator	
Model		AUTOZEN 8 (IW-AZ300)	AUTOZEN 10 (IW-AZ1200)
Rated power supplies		220-240V ~ / 50-60Hz, 200W	
Water supply method		Direct Type	
Noumenon	Measurements	430×1010×300(W×H×D)	430×1120×300(W×H×D)
	Weight	Approx. 35kg	Approx. 45kg
	Allowable water pressure	100 ~ 500 kPa	
	Allowable temperature	5 ~ 40°C	
Electrolysis device	Electrolysis method	Continuous electrolysis	
	Allowable frankincense	3.0 ~ 6.0L / min	3.0 ~ 20.0L / min
	Electrode	Iridium / Titanium	
Electrolytic sterilization water	pH	5 ~ 6.5	
	Effective chlorine concentration(pp)	10 ~ 50	
	Amount of production (L/min)	Maximum 6L / min	Maximum 20L / min
	Electrolyte / Amount	6% HCL 20L / Sterile water 40 ton	



Food manufacturing, Group cafeteria

- Sterilization of food ingredients and removal of pesticide residues
 - Hand sanitizer
- Disinfection of kitchen equipment
 - Disinfection of dishes
 - Drainage sterilization
- Toilet sterilization and deodorization effect



Agriculture, livestock

- Substituting fungicides (spray on leaves and stems)
 - Seed sterilization
- Sterilization and disinfection of harvested fruits and vegetables
 - Spray disinfection and deodorization in the barn
- Sterilization of various viruses such as foot-and-mouth disease and pig cholera
- Sterilization, disinfection and deodorization of slaughterhouses and slaughterhouses



Hospital

- Hand sanitizer
 - Gargle
- Disinfection of instruments
 - Disinfection of wounds
 - Burn, atopy treatment
- Air purification and deodorization



Air Purification

- Schools, daycare centers, kindergartens
- Postpartum care centers, nursing homes
 - Restaurant, canteen
 - Food factory
- Closed places such as supermarkets and movie theaters

Settings screen - Settings



- Electrolytic water outlet action button
- Settings button
- Press the screen for 3 seconds to switch between automatic and manual.

Automatic settings
Automatically operate the instrument according to the flow rate of the water tank using the float switch

Manual settings
Available as an operation/stop switch

DRAIN WATER Ready screen



• If you press the operation button in the center, it outputs the voice "Electrolyzed water is dispensed" and starts electrolysis

• It is a window to check the status of the electrolyte and internal operation required for hypochlorous acid water (HOCL) generation. Dispensing proceeds when the preparation is complete.

Direction - Operation screen



Flow rate :
Displays the current flow rate.

Electrolyte Usage :
Displays the amount of electrolyte used.

HOCL Total Production :
Displays the total amount of HOCL produced.

Operating time :
Displays the total usage time of the device.

Stop operation :
When the stop button is pressed,

Error screen 1



If the water intake is less than 0,5L or the value greater than 3L continues for 30 seconds after water dispensing, the water intake is stopped and an error screen is output with an error voice. Click the OK button to clear the error

Error screen 2



Occurs when the current flowing through the electrolyzer does not exceed a certain value after 30 seconds of water discharge operation, it occurs when the electrolysis performance deteriorates due to deterioration of the electrolyzer's warranty life of 3000 hours or more. For the above error, contact the A/S center to replace the electrolyzer.

Error screen 3



If the resistance of the electrolyzer does not reach a certain value after 30 seconds of water outflow, it is judged that the electrolyte is not supplied. The error is cleared by replacing the electrolyte container that contains the electrolyte.

Error screen 5



If the set continuous water dispensing amount during water dispensing operation, an error sound and an error window are displayed, and water dispensing is stopped. If you press the OK button, the error screen disappears and it moves to the operation standby screen.

Error screen 6



It occurs when there is no communication between the main board and the control board continuously for 5 seconds. The above error should be checked by contacting the A/S center.

Error screen 7



Occurs when data to be stored in memory such as set values is not saved. The above error should be checked by contacting the A/S center.



Precautions for use

1. Never Modify the unit as your will
 2. Never use or store this unit in a place with temperature or damp.
 3. Use this unit first checking the rated voltage
 4. "This device is not designed for use by people (including children) who lack physical, sensory, and mental abilities or lack of experience and knowledge who cannot use the device safely without supervision or instructions."
 5. It is recommended to monitor children so that they do not play with devices.
 - Never use a place or water as described below
 - place water is easy to be frozen
 - place where you can come into direct contact with the fire.
 - closed space.
 - Water above 40°C.
 - Not suitable for substances other than water.
 - In the case of storing and using the discharged electrolytic sterilized water
 - Make sure to mark electrolytic sterilization water and store it in a plastic container in an airtight state. If it comes into contact with air, sterilization may be lost.
 - Do not store electrolytic sterilized water using a metal container.
- ※ If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similar qualified persons in order to avoid a hazard
- ※ When the water supply is cut off the power plug must be plugged out



Confirmation before requesting A/S

Symptoms	Check Points	Measures to be taken
no water leakage or when the amount of electrolytic sterilization water is different from the standard	Check that the valve on the raw water supply line is closed.	Open the valve..
	Check hoses for bends or folds.	Extend hose.
	Check for low flow (less than 1 ℓ / min).	Please contact the A/S center to install the water pump
	Check that the water supply is shut off and the water line is frozen.	Wait for water to come out of the water supply pipe.
When the amount of residual chlorine is small	Check the date of manufacture of the electrolyte is at least one year.	Replace with new electrolyte
	Make sure the flow is higher.	Reduce the amount of water you get.
Electrolyte leaks from the product	Check that the electrolyte is installed correctly	Immediately unplug the power cord and request after-sales service.
	Excluding the electrolyte, check the inside of the product for leaks.	



Certifica&transcripts





AutoZEN

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