



引领创新
Leading & Innovation

SHOOTHOCL

绿色智能消毒设备

Environmental Intelligent
Disinfection Generator

SHOOTHOCL
Environmental protection,
intelligent disinfection equipment



Company Profile

Company Mission

To be the first class enterprise in the disinfection industry

Jinan Shoot Biological Engineering Co.,Ltd. is a high-tech enterprise integrating of R&D, production and sales in Shandong province. There are R&D centers, production centers, data centers and marketing centers, which provide technical support and innovative applications for improving public health safety.

Expert in research, development and application of electrolyzed water

Purpose

Never forget why we started, make perfect products.

Philosophy

Make disinfection more efficient, safe, environmentally friendly and convenient.

Value

With quality and service to gain customs' trusts.

Vision

Create a healthy world together.

International Market

The SHT series products are sold to different places all over China, and exported to more than 30+ countries and regions such as Thailand, Laos, Malaysia, Cambodia, Brazil, Latvia, South Africa and South America.



Qualification Patent

科创质量 Sci-tech innovation

17190111217

Qingdao Sci-tech Innovation Testing Co.,Ltd

Test Report

Report No. STI-2022042

Sample Name Hypochlorous Acid

Applicant Shandong Shine Bio Co., Ltd

Test Report

Sample Name Hypochlorous Acid Generator

Manufacturer Shandong Shine Biological Engineering Co., Ltd

Report No. STI-2022042-0

Applicant Address R1601/16A-2, Yonge Building, No.2681

Test Report

Test Type Disinfection Test

Date Received 2022/04/21

Test Standard "Technical Standard For disinfection and Biocidal Standards for Consumer" (Edition 2015) GB 2992

Test Result According to standard of "Technical Standard For disinfection and Biocidal Standards for Consumer" (Edition 2015) GB 2992 tested with results related to pages ranging from page 2 to page 4.

Inspection Conclusion Only data is provided and no decision is made.

Approved by: 陈雷 刘子丹

Reviewed by: 戚茂萍, Edited

青岛科创质量检测有限公司

科创质量 Sci-tech innovation

Test Report

No. STI-20220421-0125-3

| No. | Test Item | Unit | Test Method |
|-----|--|--------|--|
| 6 | Metal components (Shiny) (file) | mg/L | "Technical Standard for disinfection" (Edition 2002) |
| 7 | Colour and yeast | CFU/mL | GB 2991 |
| 8 | Mold and yeast | CFU/mL | GB 2991 |
| 9 | Fluorescence | mg/L | GB 2991 |
| 10 | Superoxide anion | mg/L | GB 2991 |
| 11 | Disinfection | mg/L | GB 2991 |
| 12 | Identification test (food packaging items) | mg/L | "Technical Standard for disinfection" (Edition 2002) |
| 13 | Field test of sanitary hand disinfectant | mg/L | "Technical Standard for disinfection" (Edition 2002) |
| 14 | Standard field test of plant cotton disinfectant | mg/L | "Technical Standard for disinfection" (Edition 2002) |
| 15 | Field test of wooden surface disinfectant | mg/L | "Technical Standard for disinfection" (Edition 2002) |

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科创质量 Sci-tech innovation

Test Report

No. STI-20220421-0125-3

| No. | Test Item | Unit | Test Method |
|-----|--|------|--|
| 16 | Field Test of Disinfection on Surface | mg/L | "Technical Standard for disinfection" (Edition 2002) |
| 17 | Standard field test of disinfectant | mg/L | "Technical Standard for disinfection" (Edition 2002) |
| 18 | Field test of disinfectant | mg/L | "Technical Standard for disinfection" (Edition 2002) |
| 19 | Active test | mg/L | "Technical Standard for disinfection" (Edition 2002) |
| 20 | Anti-microbial activity test | mg/L | "Technical Standard for disinfection" (Edition 2002) |
| 21 | Complex test | mg/L | "Technical Standard for disinfection" (Edition 2002) |
| 22 | Microbial complex test | mg/L | "Technical Standard for disinfection" (Edition 2002) |
| 23 | Microbiology test of rice bran germ polymeric electrolytes | mg/L | "Technical Standard for disinfection" (Edition 2002) |

青岛科创质量检测有限公司

科创质量 Sci-tech innovation

Test Report

No. STI-20220421-0125-3

Terms of Test Service

- The test report is invalid without the special seal or the cross-page seal of our company.
- The test report is invalid without the signature of the inspector, the auditor and the editor.
- Any unauthorized copy, illegal transfer, enlargement, reprinting, modification, addition and deletion or any other kind of manipulation in part of the test report is not valid, which will be held responsible legally by our company.
- The test report is only responsible for the tested sample except to otherwise noted.
- If the sample is sent by the client for test, the client should undertake responsibilities for the authenticity of sample information and other materials, which our company will not assume any liability related.
- Any objection to the test report should be submitted to us within 3 days since the report is received.
- Without the permission of our company, the test report and the name of our company shall not be used for such activities as product label, advertising, evaluation and product promotion activities.

青岛科创质量检测有限公司

Test Reports

The company has more than 30 test reports covering different concentration test items: object surface, fruits and vegetables, heavy metals, poliomyelitis, etc., which provide strong support for the disinfection industry.

Since its establishment, the company has 12 invention patents and environmental management system certifications on slightly acidic electrolyzed water technology and application.

- Environmental management system certification
- ISO14001: 2015 standard
- Quality management system certification
- ISO9001: 2015 standard
- Eu CE certification

Authoritative certification



Product Chapter

Take water as the source

New Age of Total Sanitation Management
Solutions

whole industrial chain products

Medical
Generator

Commercial
Generator

Industrial
Generator

Engineering
Generator

As easily to be used as tap water which makes efficient sterilization easier

Effectively kill
common
viruses.

Easy to use

Energy-
efficient

Non-toxic
Non-
irritating

Screen
display
One-key
control

Small Size

Convenient





AIoT

Precision manufacturing



IOT The internet of things
Real-time monitoring
Provide safety and guarantee for equipment


Cloud processing
Remote maintenance
24-hour monitoring maintenance



Adjustable concentration
10-500ppm concentration can be adjusted
Meet different requirements


Multi-mode
Users select mode based on their requirements




Electrolytic technology
Adopt core electrolysis technology
Safe, stable and reliable


Energy conservation&environmental protection
Large water output with low energy


The core patent
It has owned 5 core patents


The core technology
Self-grinding electrolyzer 10000+ hours warranty

Generator Model



Model: SHT-100
Size:350*380*190mm
Concentration: 10-120PPM
Flow rate: 2-3L/min
Service life of electrolyzer:
10000H



Model: SHT-500
Size:900*700*1400mm
Concentration: 10-200PPM
Flow rate: 7-9L/min
Service life of electrolyzer:
10000H



Model: SHT-2000
Size:350*300*800mm
Concentration: 10-200PPM
Flow rate: 33L/min
Service life of electrolyzer:
10000H

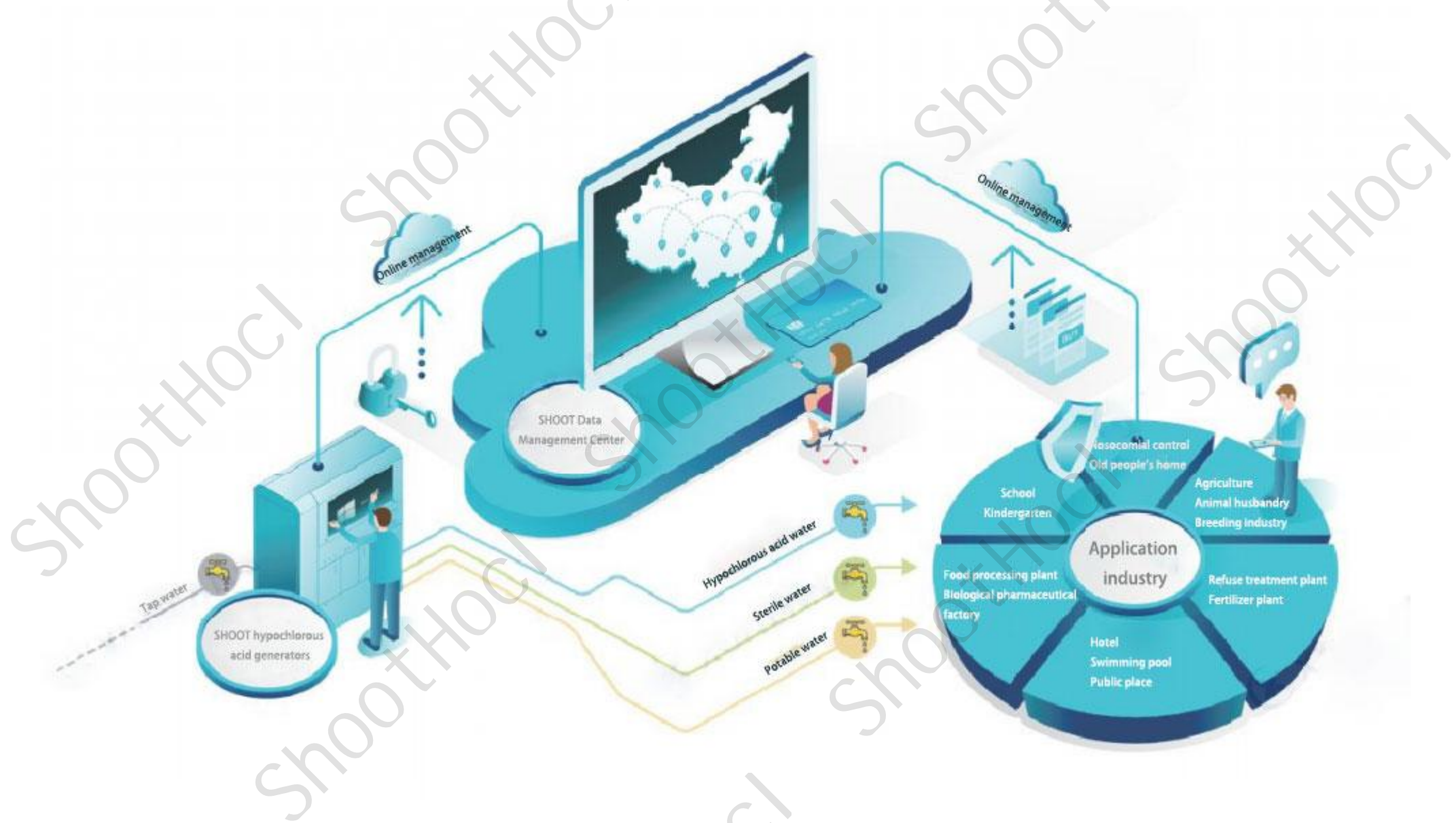


Model: SHT-100S
Size:500*450*750mm
Concentration: 10-500PPM
Flow rate: 2-3L/min
Service life of electrolyzer:
10000H



Model: SHT-1000S
Size:600*500*1500mm
Concentration: 10-500PPM
Flow rate: 17L/min
Service life of electrolyzer:
10000H

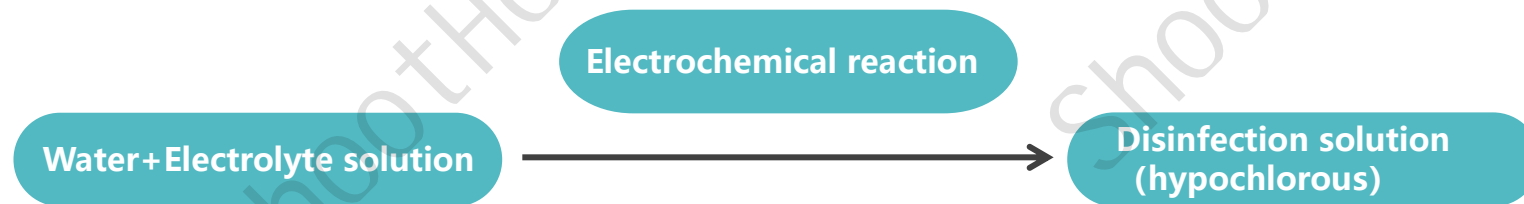
Intelligent epidemic prevention & operation data platform



Technical Chapter

Originated from Japan, superior to Japan. Leading the new trend of international health management

The hypochlorous acid obtained by electrolyzing the specific electrolyte solution in a diaphragm-free electrolyzer has the characteristics of high-efficiency sterilization, with the PH value of hypochlorous acid between 5 and 6.5, the effective chlorine concentration of 10 to 500 ppm and the oxidation-reduction point higher than 800mv.

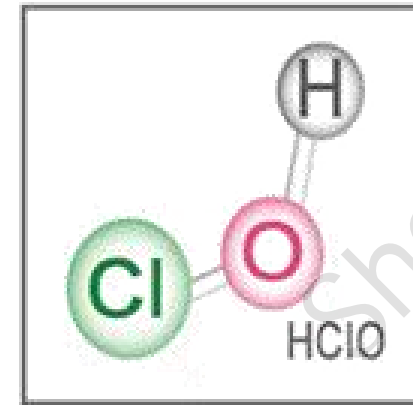
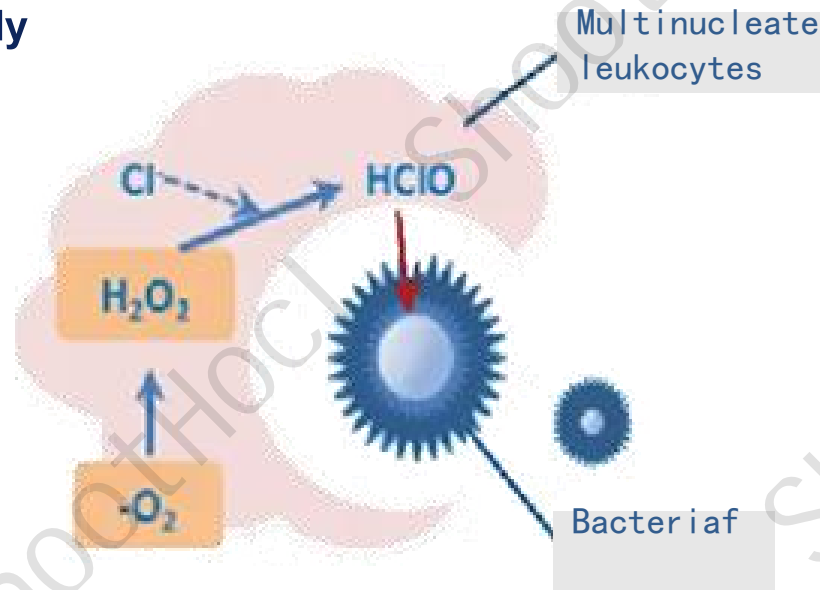


Hypochlorous acid is the immune component of human leukocyte.

Hypochlorous acid (HOCL), with strong oxidizing ability, can quickly destroy the cell membrane of harmful microorganisms and the protein component of virus protein spike cell membrane adsorbed on the cell membrane surface, which can make it fall off and no longer infect germs. And can be immediately reduced to water after interaction with microorganisms and organic matter.

Hypochlorous acid is the main bactericidal component of oxygen-containing disinfectant in human body.

Human body contains



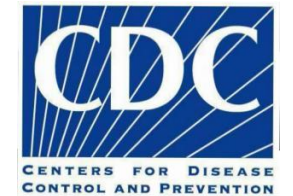
- HClO Hypochlorous
- H₂O₂ Hydrogen peroxide
- O₂ Superoxide
- Cl⁻ Chlorine ion

International certification, national recognition and safe use are guaranteed.



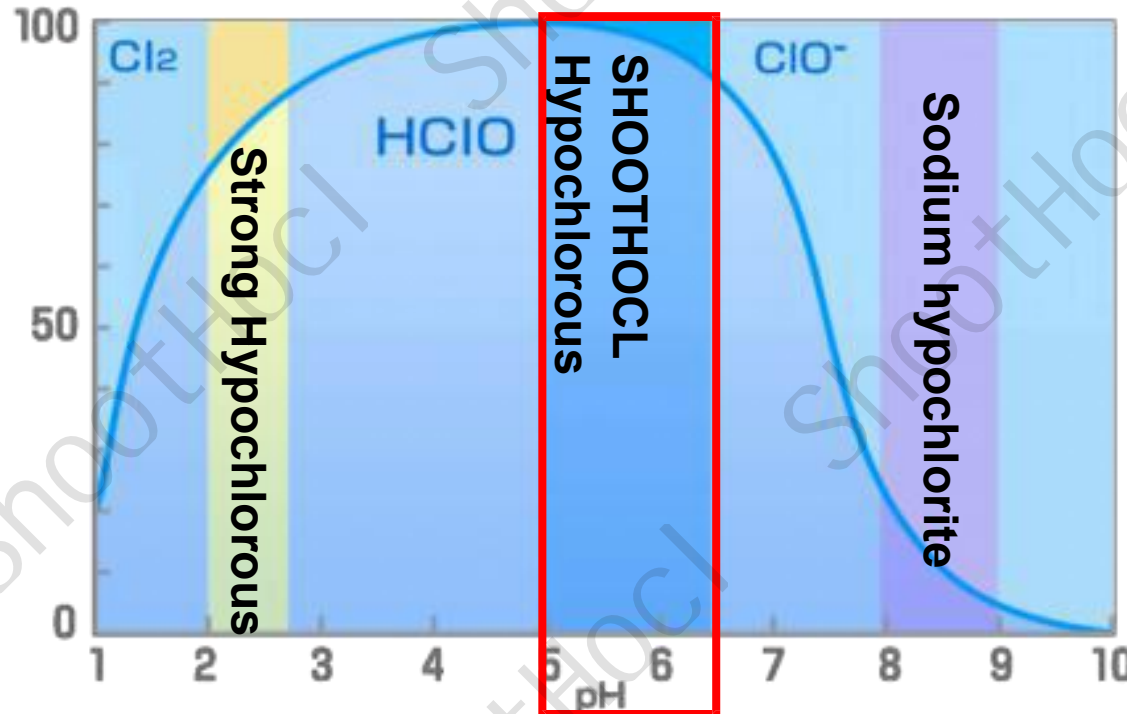
RoHS

SGS



Hypochlorous acid - Why is chlorine-based disinfectant the best choice

Hypochlorous acid proportion (%)



80-150 times of sterilization capacity

HClO can kill spore bacteria, the bactericidal intensity of ClO^- is 80-50 times (theoretical value).

No harmful substances are produced
















Chlorine gas is produced between PH 1 and 4, A PH above 7 produces trichloromethane, PH value between 5-7 does not produce any harmful substances.

Core Competence

The bactericidal ability of hypochlorous acid is 50 to 80 times that of sodium hypochlorite.



Hypochlorous acid compared with other disinfection products

| Hypochlorous | Sodium hypochlorite (84) | 75%Alcohol | Sanitizer |
|----------------|--|--|--|
| No need dilute |  Need dilute |  |  |
| Non-irritating |  Irritating to skin |  Irritating to skin |  Irritating to skin |
| Non-toxic |  Toxic |  |  Toxic |
| Non-Rinse |  Rinse |  |  Rinse |
| Safety |  |  Dangerous flammabl explosive |  |



International certification, national recognition and safe use are guaranteed

It is recognized as a food additive by FDA and Ministry of Health and Welfare of Japan. National standard of Hygienic Requirements for Chlorine-containing Disinfectants: Apart from the efficacy of common chlorine-containing disinfectants, hypochlorous acid disinfectants can also be used for indoor air, hands, skin and adhesive film disinfection.

Core Competence



The killing rate of bacteria, fungi and viruses is over 99.99%

It can kill 99.99% of common pathogenic bacteria, fungi and viruses within 10-60 seconds, with fast killing speed; It has killing effect on campylobacter, Escherichia coli, staphylococcus aureus, blight fungus black alternation spore, and has inactivation effect on influenza virus and norovirus virus, with wide killing range.

| Microorganism | | Hypochlorous | Sodium hypochlorite |
|---------------|---|--------------|---------------------|
| | | 40pm | 1000pm |
| Gram positive | Staphylococcus aureus | 10秒 | 10秒 |
| | MRSA | | |
| | Bacillus cereus spore | 3-5min | 3-5min |
| Gram negative | Salmonella enteritidis | 10秒 | 10秒 |
| | Vibrio parahaemolyticus | | |
| | Hemorrhagic Escherichia coli 0157 | | |
| | Campylobacter jejuni | | |
| Virus | Norovirus | 10秒 | 10秒 |
| | New influenza virus in 2009 | | |
| Fungi | Candida albicans in 10 seconds 10 seconds | 10秒 | 10秒 |
| | Aspergillus Niger spores | 5min | 120min无效 |
| | The spores of Penicillium arc | 5min | 120min无效 |

Core Competence

Dynamic air sterilization

Dynamic air sterilization can be done in the presence of people.

Automatic release of hypochlorous acid disinfection factor, which exists in the form of aerosol, it kills bacteria and viruses in the air and on the surface of objects, effectively blocks the transmission routes of infectious diseases such as hand, mouth, foot, flu, measles, pneumonia, etc., and always protects human health.



Convenient&economical

Can be opened to use & Can do cleaning and disinfection together

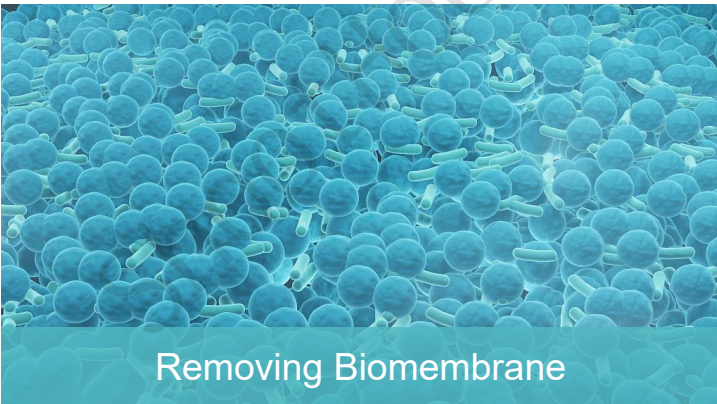
Hypochlorous acid does not need to wear protective clothings, be diluted or washed with clean water after use, which is convenient and easy.

Hypochlorous acid is at low cost, can be used in a large amount, large area and wide range, and is cheap and economical.

Core Competence

Multiple functions: sterilization, preservation, deodorization, pesticide residue removal and biofilm removal.

It has the effects of keeping fresh, deodorizing, removing pesticide residues and biofilm, and can be used for making sterile water and animal drinking water. Research on the Effect of Removing Pesticide Residues in Vegetables by Slightly Acidic Electrolytic Water shows that the removal rate of pesticide residues in hypochlorous acid water is over 92%.





Application Chapter

- Education, medical care, public transportation, nursing home, hotel, maternity club, fitness club, natatorium, shopping mall, vegetable farm, catering, home, food processing, vegetable and fruit cleaning, etc.

Application Fields



Maternal and children care institutions

Disinfect rooms, nursing rooms, rehabilitation rooms, nursing supplies, close-fitting clothes, tableware, etc. for pregnant women and babies.



Gyms

Disinfect and deodorize gymnasiums, changing rooms, fitness equipment, sanitary rooms, clothes, air, etc.



Education

Disinfect classrooms, dormitories, offices, activity rooms, toilets, stationery, toys, tableware, vegetables and fruits, clothes, kitchens, tables and chairs, floors, etc.



Sports

Disinfect and odor removal of clothes, shoes and hats, storerooms, changing rooms, fitness equipment, public areas, toilets, hand washing, foot soaking disinfection pools, etc.



Medical

Disinfect and odor removal of halls, outpatient clinics, waiting halls, corridors, infusion rooms, wards, offices, doctors and patients' sanitary hands, public health rooms, cleaning appliances, etc.

Application Fields



Hotels

Disinfect rooms, restaurants, toilets, towels, coffee tables, sofa, faucets, countertops, elevators, cleaning supplies, etc.



Agricultural trade

Surface disinfection and odor removal of general objects such as the ground, countertops, walls, sewers, transport vehicles, refrigerators, bathrooms, etc. in farmers' markets.



Transportation

Disinfect waiting rooms, carriages, seats, handrails, elevator handles, buttons, toilets, ticket vending machines, service centers, etc.



Nursing home

Disinfect kitchen, bedroom, canteen, activity room, seats, crutches, wheelchairs, personal items, toilets, etc.



Environmental sanitation

Sterilization and odor removal of garbage rooms, garbage bins, garbage trucks, floors, hoses, pools, cleaning supplies, hands, skin, mucous membranes, protective clothing, etc.



Foods

Cleaning, disinfection of food, production line, air shower, machines, tools, floor, wall of production workshop, dressing room, clothes, transportation tools, etc.



Medical cosmetology

Disinfection of reception halls, rest areas, corridors, toilets, consultation rooms, treatment rooms, operating rooms, beauty rooms, etc.

Clients

shobakr®

Vermont
A.I.S. Etho-Low BV

AHSI

bioccloud®

PT. DOVER CHEMICAL
THE DOVECHEM GROUP

Ultra Pure®

Fermador



ISOCLEAN®
CLEAN BRUSHES *Clear Skin*

GBIA



AYRO TRADING JAYA
BINA MASA PAU IN MASA IT

THOCLOR
LABS
HOME OF THE MIRACLE MOLECULE

BELGICOLD BV

MOYO THABO 3 JAPONICA CLOSE BRIDGWATER TA6 4FE, GB



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惠佰利
9191 998 1 958 9

Clients



Typical application cases of various hypochlorous acid generators



30+ Country Cases



Our factory strength



Our Factory



Our laboratories



Our production workshop



Our factory is equipped with advanced production tools, R&D, cutting, welding, debugging, integration, and meets European standards. Daily production capacity can reach 300+ units



Thanks

Creating Value Experience and
Achieving Users