



Jinan Shoot Biological Engineering Co., Ltd.

Electrolytic salt method high concentration
sodium hypochlorite generator

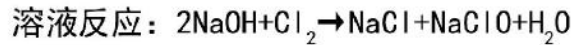
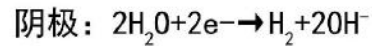
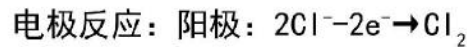
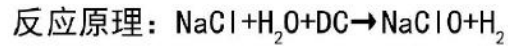
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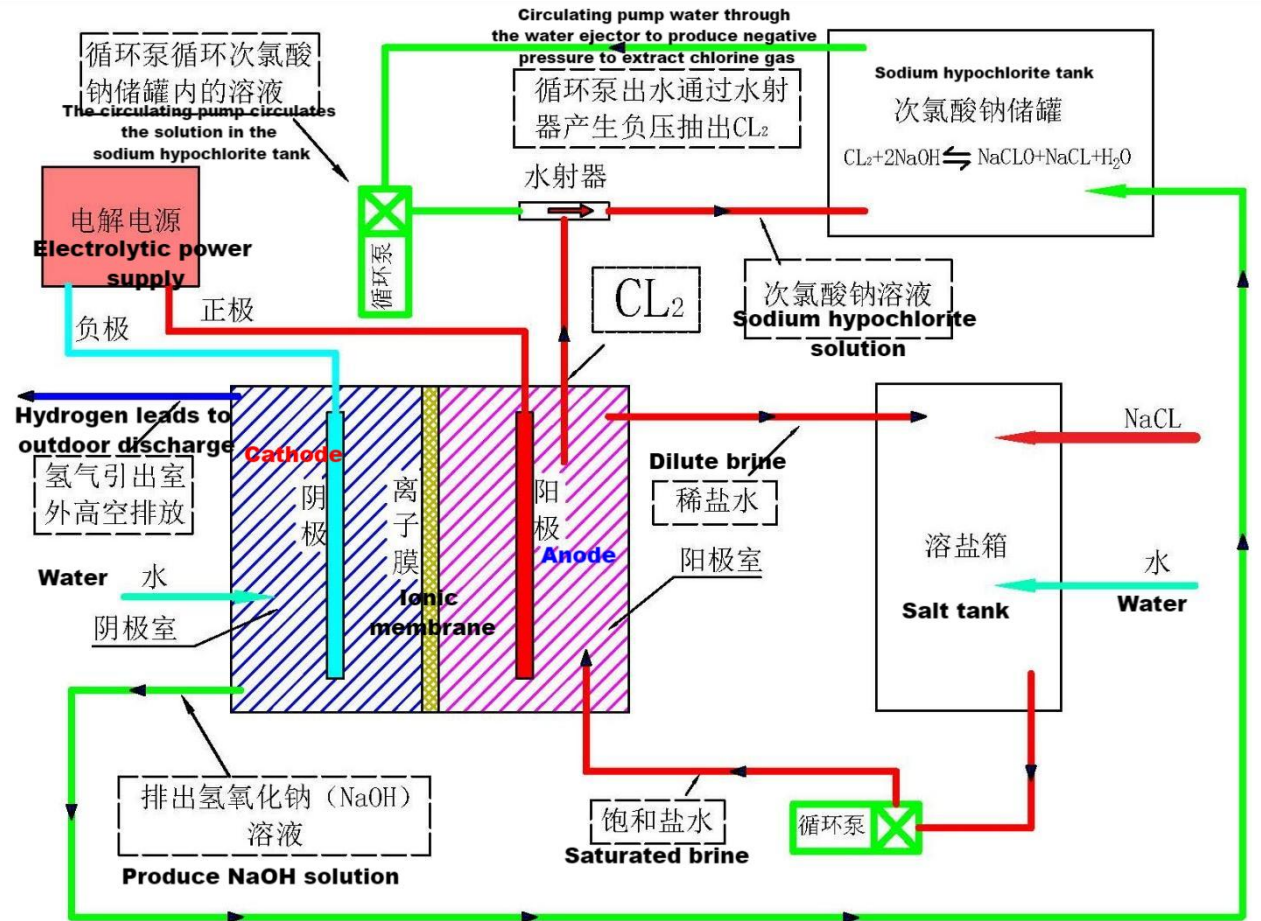
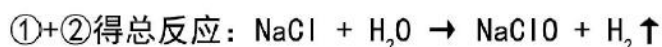
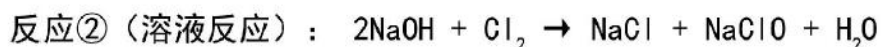
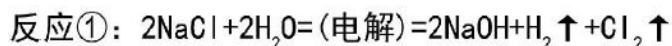
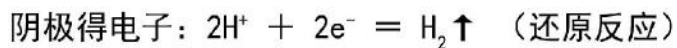
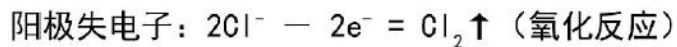
Working principle of high concentration sodium hypochlorite generator using electrolytic salt method

SHOOT brand electrolytic salt method high concentration sodium hypochlorite generator is composed of four parts: an automatic salt dissolving box, an ion membrane electrolysis tank, an electrolysis power supply, and a sodium hypochlorite generation and storage system. Add a specially designed perfluorinated ion membrane between the anode and cathode of the ion exchange membrane electrolyzer (only sodium ions are allowed to migrate from the anode to the cathode, and water and other ions cannot pass through the ion membrane), completely separating the anode and cathode. The anode chamber is filled with saturated salt water, and the cathode chamber is filled with clean water. The electrolysis power supply provides DC energy below 12 volts to the cathode and anode of the ion exchange membrane electrolysis cell. During the electrolysis process, the anode generates Cl_2 , while the cathode generates $NaOH$ and H_2 ; The Cl_2 produced by electrolysis reacts with the sodium hydroxide produced by the cathode in the sodium hypochlorite generation system to generate a sodium hypochlorite solution.

电解反应过程:



化学反应方程式:



Specification, model, and technical parameter table of high concentration sodium hypochlorite generator using electrolytic salt method

Equipme nt model	Effective chlorine production	Maximum production of 5% sodium hypochlorite	Maximum production of 10% sodium hypochlorite	13% maximum production of sodium hypochlorite	Electrolytic voltage	INPUT VOLTAGE	Maximum power consumpti on	Maximum salt consumption
SHC-100	100g/h	2L/H	1L/H	0.75L/H	DC8V	AC220V	1.2KW	200g/H
SHC-200	200g/h	4L/H	2L/H	1.5L/H	DC8V	AC380V	2.4KW	400g/H
SHC-300	300g/h	6L/H	3L/H	2.25L/H	DC8V	AC380V	3.6KW	600g/H
SHC-400	400g/h	8L/H	4L/H	3L/H	DC8V	AC380V	4.8KW	800g/H
SHC-500	500g/h	10L/H	5L/H	3.75L/H	DC8V	AC380V	6.0KW	1000g/H
SHC-600	600g/h	12L/H	6L/H	4.5L/H	DC8V	AC380V	7.2KW	1200g/H
SHC-800	800g/h	16L/H	8L/H	6L/H	DC8V	AC380V	9.6KW	1600g/H
SHC-1000	1000g/h	20L/H	10L/H	7.5L/H	DC8V	AC380V	12KW	2KG/H
SHC-1500	1500g/h	30L/H	15L/H	11.25L/H	DC8V	AC380V	18KW	3KG/H
SHC-2000	2000g/h	40L/H	20L/H	15L/H	DC8V	AC380V	24KW	4KG/H
SHC-3000	3000g/h	60L/H	30L/H	22.5L/H	DC8V	AC380V	36KW	6KG/H
SHC-4000	4000g/h	80L/H	40L/H	30L/H	DC8V	AC380V	48KW	8KG/H
SHC-5000	5000g/h	100L/H	50L/H	37.5L/H	DC8V	AC380V	60KW	10KG/H
SHC-10000	10000g/h	200L/H	100L/H	75L/H	DC8V	AC380V	120KW	20KG/H

Sodium hypochlorite can combat diseases caused by common bacteria and viruses in daily life

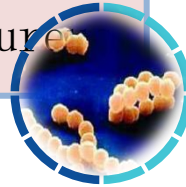
For humans and animals, especially infants and young livestock (poultry), it often causes severe diarrhea and sepsis

E. coli



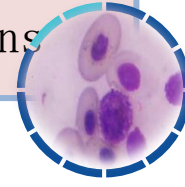
It can cause local suppurative infections, as well as pneumonia, pseudomembranous enteritis, pericarditis, and even systemic infections such as sepsis and sepsis

Staphylococcus aureus



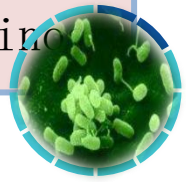
Usually present in the mouth, upper respiratory tract, intestines, and vagina of normal individuals. When the body's immune function decreases, it proliferates in large quantities

Candida albicans



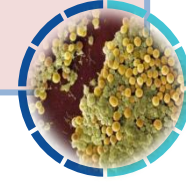
Can cause purulent lesions, and after infection, the pus and exudate appear green

Pseudomonas aeruginosa



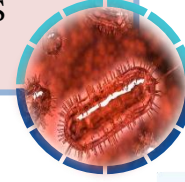
Enterovirus can cause hand, foot, and mouth disease, and its infection pathways include the digestive tract, respiratory tract, and contact transmission.

enterovirus



It is one of the important periodontal pathogens with extensive research and sufficient evidence.

Porphyromonas gingivalis



The widespread use of sodium hypochlorite



Bleach



Cleaning agent manufacturing



Water treatment plant



Farm disinfection



Sewage disposal



Swimming pool disinfection

Characteristics of high concentration sodium hypochlorite generator using electrolytic salt method



01

The ion exchange membrane electrolyzer circularly electrolyzes saturated salt water, and the salt utilization rate is close to 100%.

02

The electrode plate is maintenance free and acid free, with a free warranty of 25 years.

03

The cathode and anode plates are completely separated by ion membranes, and the electrolytic cell does not explode.

04

The concentration of sodium hypochlorite disinfectant produced can be adjusted, and up to 15% sodium hypochlorite disinfectant can be produced.

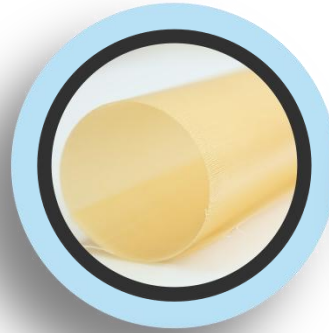
05

The equipment casing is made of corrosion-resistant materials.

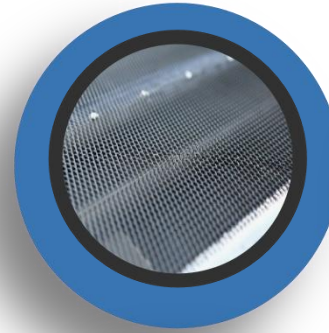
Analysis of Main Accessories of High Concentration Sodium Hypochlorite Generator by Electrolytic Salt Method



Electrolyte circulating pump
IWAKI chemical grade magnetic pump from Japan, with large flow rate circulating electrolyte and high electrochemical efficiency.



Perfluorinated ion membrane
Enhanced perfluorinated ion membrane with high electrolysis efficiency, low resistance, low power consumption, low salt consumption (salt utilization rate approaching 100%), maintenance free, and long service life.



Titanium based ruthenium and iridium coated electrodes
A titanium based mesh electrode coated with rare and precious metals such as ruthenium and iridium has high electrolysis efficiency, free from acid washing and maintenance, long service life, and a free warranty of 25 years.



High frequency switch electrolytic power supply
Intelligent high-frequency switch constant current electrolytic power supply, electronic components using international first-class brand accessories, with low failure rate. The shell of the electrolytic power supply is made of corrosion-resistant material.



Case site



Real customers use the site, according to customer needs to provide customized requirements



Philosophy

创新务实

Pragmatic innovation

超越自我

Transcendental ego

追求卓越

Pursuit of
excellence

团结奋斗

United struggle

敢于创新

Dare to innovate



Welcome to inquire

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