

HYPOCHLOROUS ACID MACHINE



Basic principal of HClO generator

0.1% salt water as raw material, and electrolysed in electrolyzer by special coating electrode, come out as HClO solution.

Brief Introduction

We all know that the disinfection ability of chlorine disinfectants (such as chlorine, sodium hypochlorite, etc.) comes from the dissolution of Cl_2 or $NaClO$ in water to form hypochlorous acid, which means the hypochlorous itself is certainly much stronger than ordinary chlorine disinfectant. according to the Japanese scientific reports, hypochlorous disinfection effect is 80 to 100 times higher than the normal chlorine disinfectant;

Since 2003, Japan took the lead in the replacing various chlorine disinfectants by hypochlorous in its domestic area. because they regard hypochlorous as a strong, safe, efficient, green and energy saving disinfectant without metal ion such as calcium, magnesium and sodium, and it'll self-decompose rapidly after finish its job, without leaving any residual chlorine problem.

Safety

Hypochlorous is actually one of the main contributors to the human immune system. Whenever human exposure to bacteria or face with virus attacks, the neutrophils of immune system start using active oxygen to produce active hypochlorous, and clear pathogens instantly.

Million years ago, the biosome has been using hypochlorous as a fungicide since million years ago, which fully shows that we are very familiar and comfortable with hypochlorous and there isn't any response to human alienation during the process of sterilization.

Application of HClO

Industry	Sector	Application
 <p>Food processing</p>	Meat, alcoholic drink, food, beverage, teas	Food sterilization, equipment sterilization, container sterilization, transport equipment sterilization, clothing sanitization
 <p>Agriculture</p>	Farm, fruit farming, flowing gardening, plant factory	Seed & seedling sanitization, plant sanitization, in-facility cleaning, water supply, disease prevention, plant harvesting
 <p>Fisheries</p>	Fish farm, market, processing, storage, transportation	Fish & shellfish sterilization, transport equipment sterilization, work area cleaning
 <p>Healthcare</p>	Healthcare facility, ambulance, nursery, senior care home	Healthcare facility sterilization, bathroom sanitization, toilet cleaning, odor removal
 <p>Public place</p>	park, station, school, hotel	Air disinfection, Surface disinfection, tableware disinfection

Product Introduction

HD- series of automatic electrolysis hypochlorous generator comprises a host, intelligent control systems, brine tanks, storage tanks and other units can be convenient, safe and efficient preparation of pure quality, broad-spectrum, safe, non-toxic hypochlorite disinfection solution.

Features of HD series hypochlorous generator:

◆ Easy to operate, high reliability

All units are controlled by PLC in control center with touch screen thus users can know running status and control all the steps. The system can detect and protect itself. The machine is full-automatic and can work stability and safely.

◆ Easy to produce, full-automatic

The raw material is weak brine and the power is of 220VAC. When operating, 11~13V electrolytic power is used, the whole machine is of long service life.

◆ High output rate, pure quality

The new type electrolytic electrode is of high efficiency. After the weak brine is filtered, the liquid flows into the electrolyzing cell. After electrolyzing, HClO solution is made, which costs little, produces safely and is of high purity. Thus has achieved a home-made mode, making the quality of disinfection solution controlled by the quality system, which is helpful to the safety in production.

Overview and technical data

Control
panel

Power
control box

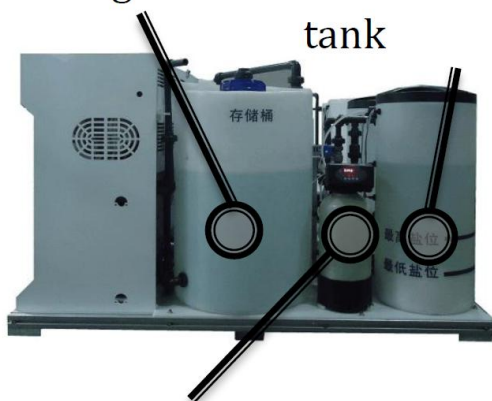


Dosing pump

Input voltage: 380VAC / 50Hz (with the ground);
 Rated power: 200W ~ 1000W;
 Working voltage: DC12V;
 Production concentration: 100-500ppm (can be customized);
 Brine concentration: 0.1%;
 Sodium removal: 99.9%;
 Work: automatic work;
 Chloro yield: 10 to 1000 g / hr (customizable);
 Brine tank: food grade PE tank;
 Hypochlorous acid tank: food grade PE tank;
 Hardware support: aluminum framework for the base, installed using an integrated approach;

Storage tank

Salt dissolving
tank



Water softener

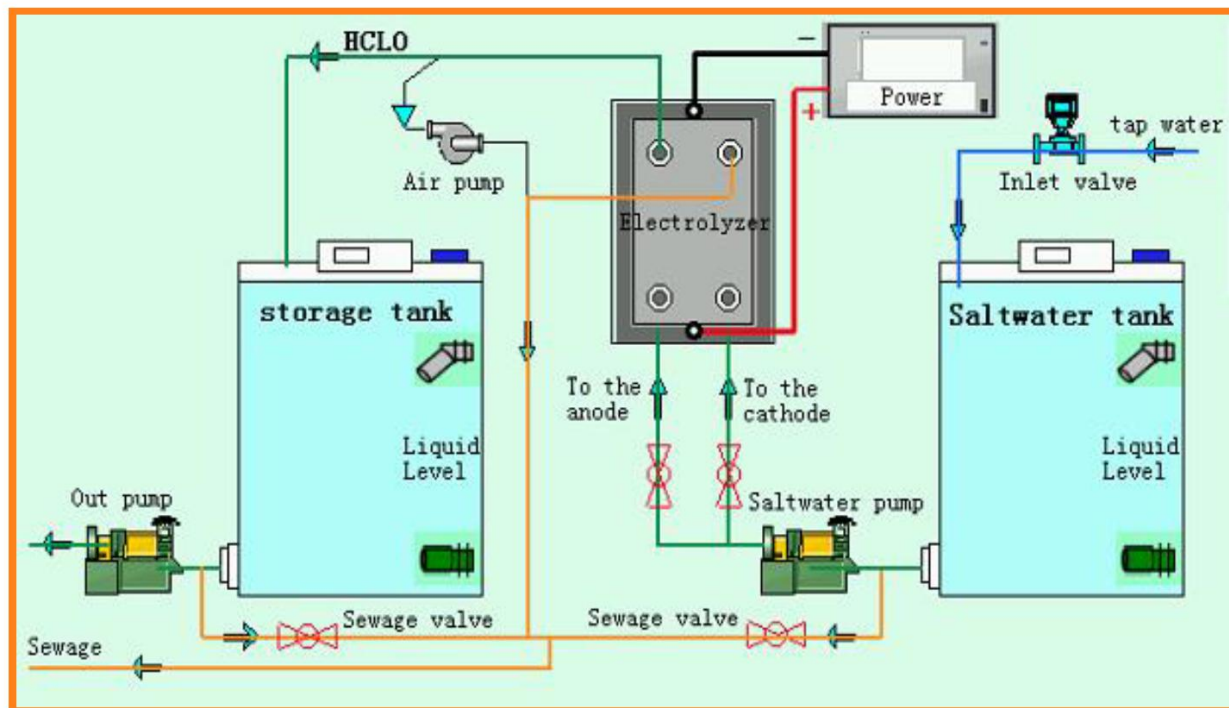
Salt water
centrifugal pump



Brine diluting
pump

Filter

System flow chart



Model Selection

Model	Liquid production	Available chlorine concentration	Brine concentration	Hypochlorous acid tank
HD-40L-HCLO	40L/hr	90 ± 10ppm	0.1%	50L
HD-60L-HCLO	60L/hr	90 ± 10ppm	0.1%	80L
HD-100L-HCLO	100L/hr	90 ± 10ppm	0.1%	120L
HD-150L-HCLO	150L/hr	90 ± 10ppm	0.1%	180L
HD-200L-HCLO	200L/hr	90 ± 10ppm	0.1%	250L

Design , size , color and specification could be change without notice