

CHLORIDOSE

SODIUM HYPOCHLORITE GENERATOR



FAST | PORTABLE | SAFE | SIMPLE | ECONOMICAL | EASY TO OPERATE

Model Chloridose is an unique chlorine generating cell. It consumes common salt, water and power to produce the Sodium Hypochlorite solution.

The generation of Hypochlorite is instantaneous and provides maximum safety to operating personnel as the generation can be terminated by switching off the power supply to the unit.

SALIENT FEATURES

- Produces Sodium Hypochlorite solution on site.
- Principle of operation is by electrolysis of salt water
- Only common salt, water and power are the raw materials.
- Easy to operate and maintain
- Generation is as and when required hence problem of deteriorating chlorine strength while storing is avoided.
- Eliminating the hazards of gas chlorine and decay of purchased hypochlorite makes CHLORIDOSE Convenient.
- Chemical transportation, storage and inventory avoided. Not dependent on supplier of chemicals.
- Low operating cost when compared to bleaching powder, market purchased sodium hypochlorite, chloramines and other chemical disinfectants.



The conventional gas feeders involve hazards of storing toxic chlorine gas. It requires safety equipment and reasonably skilled personnel for operation.

Bleaching powder dosing equipment operates erratically due to left over undissolved calcium.

The quality of bleaching powder is inconsistent as bleaching powder tends to deteriorate during storage.

Water supplies have been Chlorinated for many years to sterilize, control odour and prevent organic fouling. Although chlorine is effective in these areas, there are hazards associated with the use of gaseous chlorine. Sodium Hypochlorite (NaOCl) produced by CHLORIDOSE generators is relatively harmless to operating personnel providing a safe alternative to gaseous chlorine whilst achieving the same results in treating water.

Safe Operation

CHLORIDOSE is water treatment system free from the threat of personal injury associated with storage of hazardous chemicals. The elimination of risk from such potential major hazards is one of the fundamental advantages of CHLORIDOSE systems, by providing greater safety to plant personnel and to the general public, and assured a safe, long term supply. Plant personnel operate in a safe work environment.

Significant cost savings

High cost purchased chemicals are replaced with low cost salt and electricity.

Easily maintained

Simple change of any part, Replacement parts are stocked at our units.

Flexible operation

The design allows each installation to meet variation in utility.

CHLORIDOSE has been designed to meet all of these features and yet requires only minimal consumable **COMMON SALT, FRESH WATER AND ELECTRIC POWER.**

APPLICATION OF CHLORIDOSE SODIUM HYPOCHLORITE

- Potable water treatment for drinking purpose
- Cooling water treatment algae control
- Waste water treatment
- Effluent control including treatment of sewage.
- Decomposition of Cyanide waste in Electroplating and bulk drug plants.
- Open well water treatment
- Hospital disinfection and hygiene maintenance
- Hospital waste management.
- Sterilizer for food processing in Hotel and Restaurants.
- Meat and Poultry processing facilities disinfection.
- Sterilizer for food consumable and perishable Packing Plants.
- Public places disinfection
- Public health water treatment to control micro-organisms, destroy hydrogen sulphide (rotten egg odour), colour algae growth and keeps transmission pipes clean.
- Laundry and bleaching.
- General purpose domestic bleach and disinfectant.
- Poultry water disinfection.
- General farm sanitation, odour control.
- Dairy equipment sterilization
- Manufacture of oxidized starch.
- Bleaching of textiles, paper shellac, carpets, alginates.
- Fisheries.

CHLORIDOSE MODELS			
Model No.	Capacity as Chlorine gms/day	Salt Kgs/day	Power KW / Day
CHL-A	100	0.3	0.45
CHL-B	200	0.6	0.90
CHL-C	500	1.5	2.25
CHL-D	1000	3.0	4.5
CHL-E	2000	6.0	9.0
CHL-F	4000	12.0	18.0
CHL-H	8000	24.0	36.0
CHL-I	10000	30.0	45.0
CHL-J	12000	36.0	54.0

HOW TO OPERATE MODEL CHL-D

Fill the plastic tank with 100 litres of water. Add 3 Kg. of common salt and dissolve it in water. Immerse the cell into the saline mixture. Activate the DC power supply. Operate the unit for maximum period of 22 hours.

COMPARATIVE ADVANTAGES OF CHLORIDOSE					
DISINFECTION SYSTEM	SOURCE OF RAW MATERIALS	HANDLING OF PRODUCT	SELF-LIFE OF PRODUCT	OPERATION & MAINTENANCE	COST OF CONSUMABLE
CHLORIDOSE HYPOCHLORITE	Only Edible salt	No transportation & storage Easy handling	Produced and dosed on site. No storage. No loss of chlorine	Very Easy	Very Economical
CHLORINE GAS	Dependent on Supplier uneconomical for transport	Transportation and Handling is hazardous	Stable	Difficult	Most Economical
BLEACHING POWDER	Dependent on supplier	Handling and storage is inconvenient messy	Highly unstable Rapidly losses Chlorine on storage	Inconvenient Difficult & Messy	Expensive
COMMERCIAL SODIUM HYPOCHLORITE	Dependent on supplier & Uneconomical for Transport	Handling and storage is inconvenient	Unstable & losses chlorine on storage	Fairly Easy	Most Expensive.



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