

# STERIFLO

## RURAL WATER SUPPLY DISINFECTION SYSTEM

### CHLORIDOSE – THE EFFECTIVE PERFORMER

A regular supply of Sterilized Drinking Water is taken for granted by millions of people in towns and cities. However in rural areas the basic availability of safe drinking water is a denied luxury due to the expensive and cumbersome methods of water treatment involving chlorine gas or unreliable bleaching powder dosing system.

IEC's STERIFLO Water Disinfection System provides safe sterilized water to rural areas. The technology is user friendly and safe to operate.

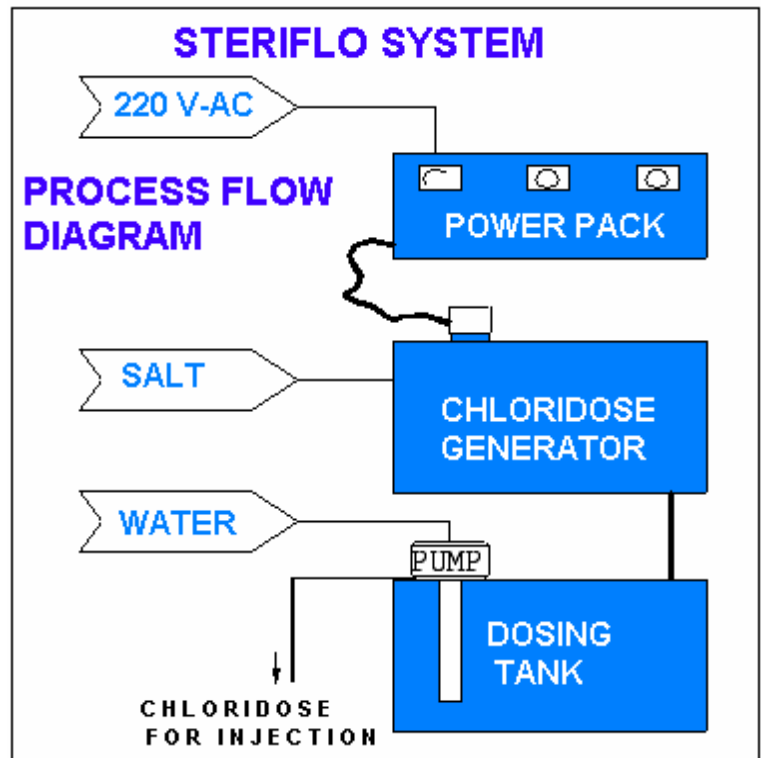
An ideal situation would be to sterilize water at the spot of pumping that is at the discharge of the bore well or at the overhead tank supply pipeline.

**IEC FABCHEM LIMITED** provides a reliable Chloridose Generator to produce Sodium Hypochlorite at site using common salt, single phase AC power supply and water. A dosing pump is used to dose the Chloridose solution for sterilizing drinking water.

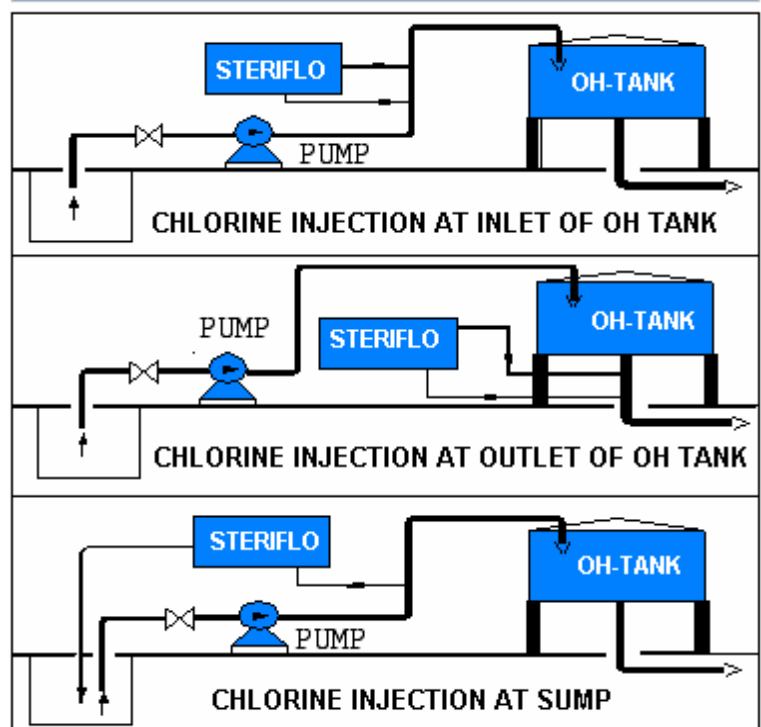
To meet the requirement of rural water supply IEC offers various Chloridose models for economical disinfection of large quantities of water. The micro organisms are killed by the disinfectant produced using only common salt, power and water. The treatment meets the standards set by WHO for disinfection of drinking water.

#### SALIENT FEATURES:

- ❖ ONLY COMMON SALT AND AC POWER REQUIRED.
- ❖ NOT DEPENDENT ON CHEMICALS
- ❖ EASY TO OPERATE AND MAINTAIN
- ❖ COST EFFECTIVE.
- ❖ AVOIDS HAZARDS ASSOCIATED WITH CHLORINE GAS WHICH REQUIRES ELABORATE SAFETY SYSTEM.



#### TYPICAL INSTALLATIONS



# SPECIFICATIONS – FOR STERIFLO SYSTEM

**Steriflo** disinfection units for drinking water supply schemes is available in eight standard models. The capacity of water treatment is considered at **2 ppm** chlorine dosage at the point of injection.

STERIFLOW SYSTEM MODEL	WATER LAC LIT/DAY	CHLORINE GMS/DAY	SALT Kg/day	POWER KW/Day
20L	1.0	200	0.6	0.9
50L	2.5	500	1.5	2.3
100L	5.0	1000	3.0	4.5
200L	10.0	2000	6.0	9.0
400L	20.0	4000	12.0	18.0
600L	30.0	6000	18.0	27.0
800L	40.0	8000	24.0	36.0
1200L	60.0	12000	36.0	54.0

**STERIFLO** system introduces a pre measured quantity of Chloridose solution into the water supply. It can be gravity dosed into the sump or it can be pressure feed into the pressure main of distribution line.

## OPERATION:

Chloridose generates a 7.5-gpl concentration of Sodium hypochlorite solution. The solution is transferred to the dosing tank by gravity. From dosing tank Chloridose is injected into the water main by water operated dosing pump.

## AUTOMATIC DOSING:

The Dosing pump is automatic. As soon as the water flows in the distribution main Chloridose Injects Solution at preset valve. Operator can observe the flow of solution through the flow meter. The dosage can be adjusted to obtain the desired value.

Take water sample after injection from the main and analyze for availability of free residual chlorine in water by a test kit provided.

The system will operate without any attention. Once it is preset for the required dosage level, there is no need to adjust the flow level every day. As and when the water supply starts automatic dosing is carried out by CHLORIDOSE

## SEQUENCE OF OPERATION:

- ❖ Fill specified level of water into the Chloridose generator.
- ❖ Add common salt of specified quantity and ensure the salt is dissolved.
- ❖ Immerse the Chloridose cell.
- ❖ Switch on the power supply of the generator.
- ❖ Now the generator works for next 22 hours to produce the solution.
- ❖ After 22 hours Switch off the power supply.
- ❖ Transfer the Chloridose solution to the dosing tank by gravity by opening the valve.
- ❖ After transferring close the valve.
- ❖ Chloridose solution in dosing tank is ready for dosing.
- ❖ Chloridose automatically injects solution into the water supply system as and when the supply starts.



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