

## DOUBTS ABOUT SILVER

- Our equipment discharges infinitesimal quantity of silver ions, (0.01 mg/lit to 0.03 mg/lit) and not molecular silver.
- World Health Organization (WHO) has suggested a maximum limit of silver that may be consumed by a human being is 10gms.
- In the whole life time of 70 years, considering one consumes 2 lts/day for all 365 days, he consumes only 0.5gms. this is 20 times well within the limits of WHO.
- Retention rate of silver in human and laboratory animals range between 0 and 10% as their ionic size is so small.  
-Ref: "Guidelines for drinking water quality"  
-2nd edition vol.I.P.No. : 54 by WHO.
- Permissible limit is 100 ppb (micro grams/lit for drinking water as per EPA and 90 ppb (micro grams/lit) as per European Union Standard.



Model Senco X - 13333 LpM / 8,00,000 LpH

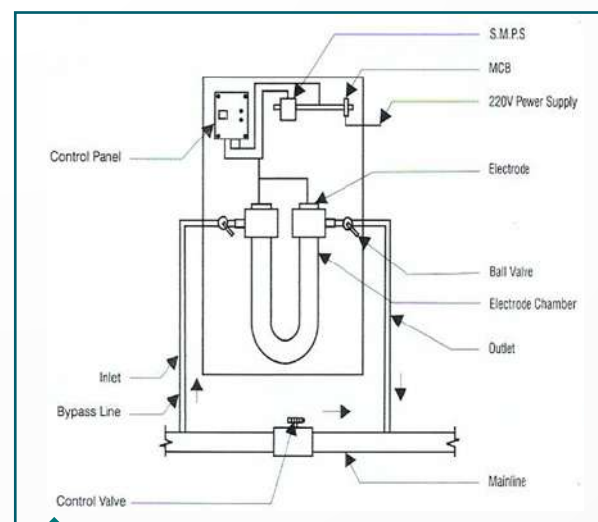
### Permissible Limits

- IS 10500 - Drinking Water Standard - 0.1 mg/lit or 0.1 ppm
- IS 14543 - Packaged Drinking Water - 0.01 mg/lit or 0.01 ppm
- USEPA – 0.1 mg/lit, WHO – 0.08 mg/lit

### Credential:

The product is evaluated for efficacy of water disinfection by **NEERI (CSIR), Nagpur**

Due to continuous research and development the above specifications are subject to change.



SCHEMATIC DIAGRAM



## SILVER IONIZATION WATER DISINFECTION EQUIPMENT



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- ANCIENT REMEDY
- MODERN TECHNOLOGY
- HEALTHY WATER

SILVER IONIZATION

Silver Ions Ag2+ are produced from pure Silver Electrodes by passing a calculated amount of current. This is produced according to the setup in the control panel, which in turn is as per actual flow.

Concentrated solution of Silver ions in water is produced in the water chamber and is made to mix with the flow of water in the pumping main and then in turn we get the required concentration or in smaller models we have the entire water flowing through the water chamber.

HOW IT WORKS?

Silver ions produced in our system are positively charged and micro organisms are negatively charged. There is an attraction among the silver ions and the micro organisms. The silver ions disable the enzymes that micro organisms depend on to breathe and thus kills them. Silver is effective because of its capabilities of interfering with DNA production and accelerating the death phase of bacteria and viruses.

Because of the charge in the ions they repel each other and are always in suspension. As their size is small they have a large surface area of silver per unit volume of silver. This small size with its large surface area to volume ratio enables the surface chemistry of silver.



Capacities 50-150 LpM for Bore well



Capacities 50-150 LpM for Packaged Drinking Water



For Tube well 1000 LpM



For Tube well 2000 LpM

UNIQUE FEATURES

- No Cancer producing Disinfection By Products
- Silver ionization for drinking water
- Fool proof and reliable
- Stainless steel water chambers
- Light weight compact & Wall mountable
- Kills all bacteria, virus and algae
- No smell & No change in taste
- Dosage well within WHO,EPA and BIS limits 
- No corrosion, hence longer life
- Moderate running cost
- Longer residual effect
- Instant dosage checks using field test kits.

PRESENT MODELS

| S.No | Solar Model | Features               | Capacity LpM | Capacity LpH |
|------|-------------|------------------------|--------------|--------------|
| 1    | Senco S1    | Disinfects Water up to | 17           | 1000         |
| 2    | Senco S2    | Disinfects Water up to | 34           | 2000         |
| 3    | Senco S3    | Disinfects Water up to | 50           | 3000         |

| S.No | Power Model | Features               | Capacity LpM | Capacity LpH |
|------|-------------|------------------------|--------------|--------------|
| 1    | Senco I A   | Disinfects Water up to | 50           | 3000         |
| 2    | Senco I B   | Disinfects Water up to | 100          | 6000         |
| 3    | Senco II A  | Disinfects Water up to | 166          | 10000        |
| 4    | Senco II B  | Disinfects Water up to | 300          | 18000        |
| 5    | Senco III   | Disinfects Water up to | 500          | 30000        |
| 6    | Senco IV    | Disinfects Water up to | 1000         | 60000        |
| 7    | Senco V     | Disinfects Water up to | 2000         | 1,20,000     |
| 8    | Senco VI    | Disinfects Water up to | 3333         | 2,00,000     |
| 9    | Senco VII   | Disinfects Water up to | 5000         | 3,00,000     |
| 10   | Senco VIII  | Disinfects Water up to | 6666         | 4,00,000     |
| 11   | Senco IX    | Disinfects Water up to | 8333         | 5,00,000     |
| 12   | Senco X     | Disinfects Water up to | 13333        | 8,00,000     |

Power supply – 230 V AC, 50 Hz, Single phaseFor Bigger Capacities multiples of the above equipments can be used or can be designed and built as per requirements.