



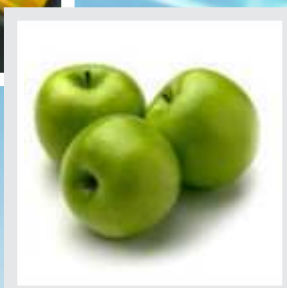
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# ANDI-LYTE

Mixed Oxidant Disinfectant Generation System

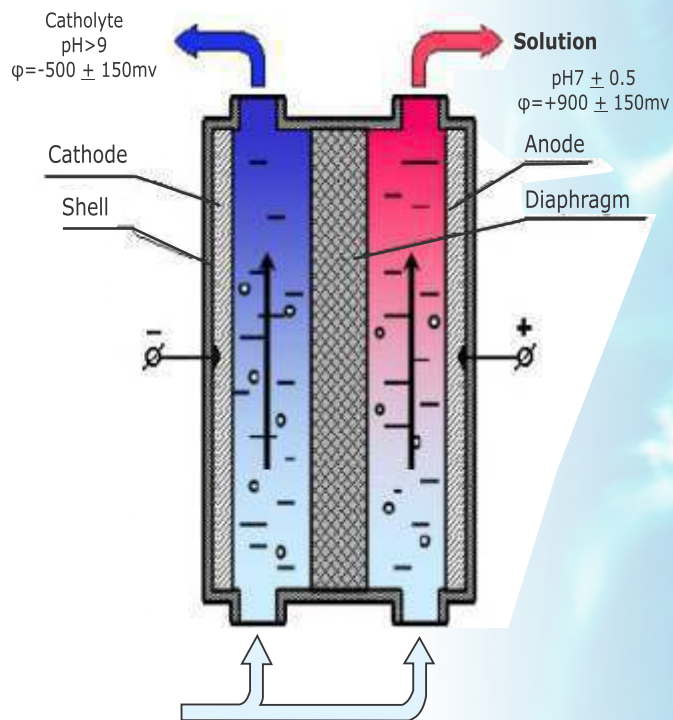


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Hospital acquired infections are a major cause of concern for all the health care providers. These result in antibiotic resistant strains, long hospital stay, readmission of patients and overall higher morbidity and mortality. This is also one of the contributing factor in higher infant mortality. Controlling HAIs is a major challenge for all the healthcare establishments.

Good hygiene and asepsis is critical for controlling and managing HAIs. Traditionally, toxic chemicals like hypochlorite, phenols, hydrogen peroxide, quaternary ammonium compounds are used as disinfectants. These chemicals cause acute and chronic toxicity in humans. Usually these are diluted to reduce the toxicity. However, by dilution these also lose their efficacy against micro - organisms. This results in poor infection control.



### Potable water with Solution

$\text{pH} = 7 \pm 0.5$ ,  $\phi = +300 \pm 100 \text{mV}$  (AgCl ref electrode)

Ion composition:  $\text{Na}^+$ ;  $\text{K}^+$ ;  $\text{Ca}^{2+}$ ;  $\text{Mg}^{2+}$ ;  $\text{Cl}^-$ ;  $\text{SO}_4^{2-}$ ;  $\text{HCO}_3^-$

Andi-lyte generators are state-of-the-art, top of the line Mixed Oxidant Disinfectant Generation System which are able to generate mixed oxidants disinfectant from a mixture of water and proprietary electrolyte solution. In the system, the electrolyte and water are mixed automatically and passed through a flow-through cell. DC current at 10 Amperes is passed through the cell. Very high current densities are generated in the flow through cells which in turn activates this mixture and generates a mixture of oxidants. The total oxidant concentration is optimized to  $\geq 400 \text{ppm}$  and the total dissolved salt concentration is maintained at less than 2000ppm. The solution is generated at a pH of  $7 \pm 0.5$ . This combination ensures maximum disinfectant action while ensuring safety of surfaces.





Andi-lyte Generators are fully automatic. The system needs to be connected to tap water and electricity. Once started, the water treatment unit automatically conditions the tap water @ 50L per hour and stores it into a 50L/200L tank. Subsequently this conditioned water is automatically mixed with specially prepared electrolyte solution. This solution is then activated in the flow through cell. The activated solution is called Solution and is stored in a tank. The system generates required quantity of Solution using electrolyte solution, water and electricity. This solution contains a mixture of highly oxidizing substances like HOCl, NaOCl, O<sub>3</sub>, H<sub>2</sub>O<sub>2</sub>, ClO<sub>2</sub> etc. The Oxidation Reduction Potential or ORP of this solution is more than 800 milli volts. This mixture of oxidants is then used as a disinfectant. For critical areas, 1 part is diluted with 3 parts of water and for non critical areas 1 part is diluted with 7 parts of water.

Disinfectant Solution is able to destroy all types of bacteria, including mycobacterium tuberculosis, viruses, fungi & even spores. The solution also destroys the bio-film which sometimes are the cause of persistent contamination. The system is tested in various laboratories of international repute and found to be effective within a 5 minute contact time.

Disinfectant solution is non toxic and eco friendly. This green disinfectant is ideal for use in Hospitals and other facilities where controlling microbial contamination is important.

# *New age disinfection*



**Equipment uses specially prepared electrolyte solution  
One Liter Electrolyte generates 50 Liter of Disinfectant Solution**

# ANDI-LYTE

## Floor Mounted System

### Generator Specifications

Solution Generation Capacity	40L/ Hr
LCD Display	4 Line, single color
Display Parameters	Current, Voltage & Errors
LED Indicators	Power, System, Fuse, Error
Self Diagnostic	Automatic (At preset time & current)
Error Display	On LCD Display
Descaling of cells	Automatic based on system parameters.
Cell configuration	Twin (2 Nos)
Solution Tank Capacity	50 Ltr./ 200 Ltr. as per Customer's requirement.
One liter of electrolyte solution generates	50 liters of disinfectant solution at 400 ppm.
Solution Audit	Generated solution is audited in real time and give suitable user prompts.
Display of maintenance cycle	Yes

### Water Conditioning Unit Specifications

Water Conditioning Unit Capacity	50L/ Hr
Water filling	Automatic
Conditioned Water Tank Capacity	50L
Continuous preventive maintenance of membrane	Yes

### Electrical Requirement

Power	350W approx
Supply	220V - 240V AC
Frequency	50Hz/ 60Hz

**The system is controlled using an integrated control panel for both the generator and Water Conditioning Unit.**

### Solution Parameters.

Total Mixed Oxidant Concentration	≥ 400ppm
Total concentration of dissolved salts	< 2000ppm
pH	7 ± 0.5
Toxicity	No known toxicity
Microbicidal efficacy	Effective against all types of bacteria, viruses, fungi & spores
Contact time	5 minutes or less

### Consumable Pack

Andi-lyte Electrolyte concentrate	10 liter pack (2x5 liter cans) other pack sizes can be considered on special request.
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