

Fontus has taken a lead to offer comprehensive water disinfection solutions. In its endeavour to attain a leadership position in the water disinfection segment it has joined hands with De Nora, a world leader in water electrochlorination technology to offer its new range of electrochlorination systems that produces chlorine at significantly lower costs than traditional chlorination products. The hypochlorite produced is below the threshold for hazardous chemical classification, therefore offers complete safety for operator and the population around the installation.

Process

Electrochlorination is a process where common salt (sodium chloride) is converted to low strength sodium hypochlorite by electrolysis.

Features & Benefits

- Most experienced player in the field
- Preferred technology for disinfection as per Ministry of Drinking Water supply and sanitation
- Economical method of chlorination over sodium hypochlorite & bleaching powder
- Lowest power consumption / kg of Cl₂
- Lowest salt consumption / kg of Cl₂
- Grade-1 Titanium Electrodes with MMO coating
- Rectifier with high voltage, current and temperature protection
- Safe, clean and hassle free chlorination
- Robust equipment provides unrivalled reliability
- Corrosion resistant material
- Removes dependency on chemical supply

Applications

- Disinfection of potable water & wastewater
- Control of biological growth in cooling water circuits
- Swimming pools
- Industrial Processes – ETP/STP

	Gas Chlorination	Bleaching Powder and Hypo Chlorination	Electrochlorination
Availability	Hazardous to transport and store	Not readily available and limited shelf life	On site generation, as and when required
Inventory	Toxic to handle, and dangerous to store, requiring special approval	Unstable, dangerous and difficult to handle	Easy to operate and handle, as only salt has to be stored
Safety	Threat to public health	Threat to public health	Absolutely safe
Loss of material	Required dosing has to be maintained	Loss in chlorine concentration during transport and storage	No losses. To be generated as and when required
Concentration	Exact concentration of chlorine known	Strength is unknown, causing excess or insufficient chlorination	Exact concentration of chlorine known
Nature	Inflammable	Aggressive, due to high caustic content	Not aggressive

Electrochlorination works out to also have the lowest lifecycle costs, besides the above advantages



Electro-Chlorinator System PHED-Palwal (HARYANA)
Over 20 Installations running successfully all over India

Continuous Model

Continuous models are designed for chlorination of water required for higher volumes. These models are suitable for urban and semi urban water supply schemes, waste water application, industrial processes, large swimming pools, Railways and defence establishments.



Each skid mounted system comes as a complete package, comprising of electrolyser, generation tank, DC power supply unit, power cables, control panel, dosing pump, brine transfer pump, hypo transfer pump, salt saturation tank & storage tank.

Batch Model



Batch models are designed to generate hypochlorite in a batch of 8 hours for a wide range of application in a safe, low cost reliable and comprehensive package. They are suitable for applications where low capacity of water needs to be disinfected. These systems are suitable for Panchayati Raj, Rural Water Supply scheme, small swimming pools and hospitals.

Each system includes the generation tank, electrolyser, DC power supply, power cables, dosing pump, control system and storage tank.



Product Range

MODEL	TYPE	CHLORINE GENERATION CAPACITY
Fontus De Nora 25	Batch	Suitable to generate 200 gms of free (active) chlorine in a batch of 8 hours i.e. 0.60 kg of chlorine in 24 hours
Fontus De Nora 50	Batch	Suitable to generate 400 gms of free (active) chlorine in a batch of 8 hours i.e. 1.2 kg of chlorine in 24 hours
Fontus De Nora 100	Batch	Suitable to generate 800 gms of free (active) chlorine in a batch of 8 hours i.e. 2.4 kg of chlorine in 24 hours
Fontus De Nora 300	Batch	Suitable to generate 2400 gms of free (active) chlorine in a batch of 8 hours i.e. 7.2 kg of chlorine in 24 hours
Fontus De Nora 500	Continuous	Suitable to generate 500 gms of free (active) chlorine every hour i.e. 12 kg of chlorine in 24 hours
Fontus De Nora 1000	Continuous	Suitable to generate 1000 gms of free (active) chlorine every hour i.e. 24 kg of chlorine in 24 hours
Fontus De Nora 2000	Continuous	Suitable to generate 2000 gms of free (active) chlorine every hour i.e. 48 kg of chlorine in 24 hours
Fontus De Nora 3000	Continuous	Suitable to generate 3000 gms of free (active) chlorine every hour i.e. 72 kg of chlorine in 24 hours

Models also available in higher capacities

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