ION EXCHANGE
Refreshing the Planet

INDION® Chlogen

On-site Chlorine Dioxide Generator

Ion Exchange has indigenously developed INDION Chlogen, a safe and efficient on-site chlorine dioxide generator. It is a reliable, user- friendly and cost-effective system that finds application in water disinfection viz., cooling water, potable water, wastewater etc. It also finds application in process and service industries such as dairy, beverages, paper and pulp, food and vegetable processing, poultry, chemical, power, textile, hotels, hospitals, etc. as an effective disinfectant.

Our R&D team continuously works toward improvising products to meet customized demands. In our effort, to address specific problems and provide effective value-added customized solutions, we installed several INDION Chlogen systems in varied industries. Two case studies e.g. of installation are:



PIC: INDION CHLOGEN M3 PRO

- A small power plant in South India faced a problem with its cooling water system. As per their standard practice, sodium hypochlorite was dosed in the cooling water treatment program as an oxidizing biocide. Sodium hypochlorite is a non-selective biocide and hence it consumes a higher volume of chemicals to reach desired FRC levels.

  To address the issue, we installed INDION Chlogen. FRC level of 0.5 was easily achieved with the dosing of ClO_2. Apart from addressing the key issue, INDION Chlogen also helped save substantially on operating cost, as the system was required to be operated only for 4 h/d.

- A Chemical company near Mumbai faced a MIC problem in MS pipeline of cooling tower due to high microbial activity. As per the clinet's standard practice high volume of Ox biocide was dosed which led to increased treatment cost. It also increased the electrolyte concentration in the circuit. The slug dose of Ox biocide had little effect and it led to severe under deposit corrosion.

  To address the issue we suggested dosing of ClO_2 using INDION Chlogen. ClO_2 has high and stable oxidising property. ClO_2 destroys existing biofilm, eliminating breeding ground for micro organisms which further prevents it from building up again. The installation on INDION Chlogen resolved the MIC issue. The cost of treatment programme also reduced considerably and the system became corrosion free.

Features

- Safety first by design
- High chlorine dioxide generation efficiency
- We offer multiple Chemical Dosing Systems to our customers
- Chemical low-level alarm as standard
- Auto/Semi-Auto/Manual variant available
- Production capacity: 10 gm/hr to 10 kg/hr and above

Optional Features

- Online ORP analyzers
- Online chlorine dioxide analyzers
- Chlorine dioxide gas leak detector
- Pump flow monitors
- Warning beacon alarms
- Chlorine dioxide easy test kits
- Smart remote monitoring and data logging feature

Benefits

- Efficient bio-dispersant
- Efficient microbial control
- Approved drinking water treatment
- Long shelf life in water
- Less corrosive
- Reacts with cyanides, nitrites, sulphides, phenols and Fe^{2+}

Technical Specifications

Standard Model	Capacity	Mode of Generation	Selection Criteria
M1	500 gm/hr to 100 kg/hr	One Pump Method	INDION 1496 & Chlorine Gas
M2	5 gm/hr to 100 kg/hr	Two Pump Method	INDION 1499/1496 & Hcl
M3	500 gm/hr to 100 kg/hr	Three Pump Method	INDION 1496, INDION 9059 & Conc. Hcl

Note: A full technical data sheet is available on request.

To the best of our knowledge, the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional / branch offices for current product specifications.

INDION® is the registered trademark of Ion Exchange (India) Ltd.

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