

INDION[®] CHLOGEN

Chlorine Dioxide Generator

INDION CHLOGEN is a very reliable and cost effective solution in disinfection technology combining high performance, simplicity of use and low maintenance. INDION CHLOGEN produces chlorine dioxide safely and efficiently. Chlorine dioxide can be produced by using chlorinated water and acid methods. The simple design reduces operational difficulties, resulting in lower operating cost and easy operator control. INDION CHLOGEN finds application in almost every industry such as dairy, beverage, pulp and paper, food and vegetable processing, poultry, chemical, power, textile, hotels as well as in hospitals etc.

Features

- HAZOP study conducted
- Production technologies : gas and acid based
- High chlorine dioxide generation efficiency
- Low chlorine residual
- Auto/manual mode timer based operation
- Production capacity: 0.4 kg/h, 1 kg/h and above

Benefits

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



Bio-dispersant Property

Traditional biocides do not penetrate the biofilm. They only impinge on the surface layers, killing them but leaving the underlying bacteria unaffected. Chlorine dioxide can penetrate the slime layer, as it is a true gas.

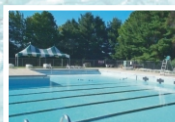
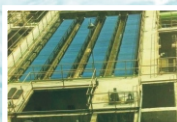
Advantages

- Kills viruses, bacteria, giardia, cryptosporidium, botulism, e.coli and cholera
- Very effective in removing odour and taste caused by high organic loading, phenols, humic acid or sulfides
- No significant formation of trihalomethanes (THMs)
- Does not react with bromides to form bromine or bromate (a known carcinogen) or promote the formation of other brominated hydrocarbons
- Oxidises iron, manganese and sulfides
- Does not react with ammonia and is only slightly reactive with primary amines
- Enhances clarification process

Applications

INDION CHLOGEN finds application in industries, institutions, hotels, resorts and establishments.

- Drinking water treatment
- Cooling water treatment
- Swimming pool treatment
- Process water treatment
- Waste water treatment



Methods Of Generation

INDION® CHLOGEN	Model-D1	Model-D2
Water flow through generator	500 l/h to 2000 l/h	
Water pressure	2 – 3 kg max	
INDION 1496 (25%)	2.2 l/h	NA
Cl ₂ flow rate (gas)	0.5 to 2.5 kg/h	NA
IINDION 1496 (8%)	NA	7.0 l/h
INDION 9059 (10%)	NA	5.5 l/h
HCL (33%)	NA	6.3 l/h
Selection criteria	To be used where chlorine gas is available.	To be used in other cases.

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 offices for current product specifications.

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CORPORATE OFFICE

Tiecicon House, Dr. E. Moses Road, Mahalaxmi, Mumbai 400 011
Tel: 022-3989 0909 Fax: 022-2493 8737
E-mail: ieil@ionexchange.co.in ; hocro@ionexchange.co.in

INTERNATIONAL DIVISION

R-14, T.T.C MIDC, Thane-Belapur Road, Rabale, Navi Mumbai 400 705
Tel: 022-3989 0909/3047 2400 Fax: 022-2769 7918
E-mail: rabcrointl@ionexchange.co.in; export.sales@ionexchange.co.in

REGIONAL OFFICES

- **Chennai** - Tel: 044-3910 2900 Fax: 044-2815 3361
E-mail: checro@ionexchange.co.in
- **Delhi** - Tel: 011-3989 0909/3054 3200 Fax: 011-2577 4837
E-mail: delcro@ionexchange.co.in
- **Kolkata** - Tel: 033-2400 4341/49 Fax: 033-2400 4345
E-mail: calcro@ionexchange.co.in
- **Vashi** - Tel: 022-3989 0909 Fax: 022-2788 9839
E-mail: mumcro@ionexchange.co.in

BRANCH OFFICES

- **Bangalore** - Tel: 099168 31908
E-mail: bngcro@ionexchange.co.in
- **Chandigarh** - Tel: 0172-274 5011 Fax: 0172-274 4594
E-mail: delcro@ionexchange.co.in
- **Hyderabad** - Tel: 040-3066 3101/2/3 Fax: 040-3066 3104
E-mail: hydcro@ionexchange.co.in
- **Indore** - Tel: 0731-406 4875 Fax: 0731-404 1578
E-mail: indore.gen@ionexchange.co.in
- **Lucknow** - Tel: 0522-301 3401/02 Fax: 0522-301 3401
E-mail: luk.general@ionexchange.co.in
- **Pune** - Tel: 020-3293 4035 Fax: 020-2714 6109
E-mail: pun.general@ionexchange.co.in
- **Vadodara** - Tel: 0265-239 6506/7638 Fax: 0265-239 8508
E-mail: brdcro@ionexchange.co.in
- **Vizag** - Tel: 0891-324 6253/324 9405
E-mail: sales.vizag@ionexchange.co.in

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