

# The Complete Solution in Water Treatment

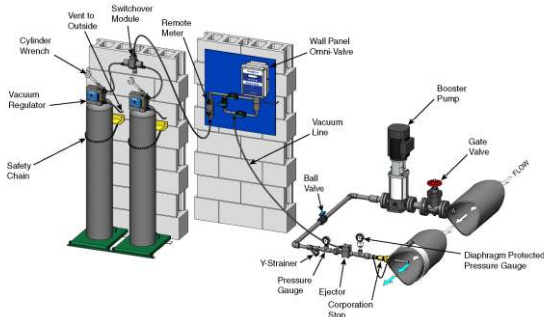
**DESIGN AND MANUFACTURERS SUPPLY, SERVICE, ERECT TEST AND COMMISSIONING OF WATER TREATMENT SYSTEM**

## VACUUM FEED GAS CHLORINATOR : PRINCIPLE OF OPERATION :

Motive Water (Water at High Pressure) passes through the injector to produce vacuum. This vacuum extends upto Automatic Vacuum Regulator (AVR). The chlorine gas supplied (from Tonnes / Cylinders or Chlorine Evaporators) under pressure is reduced to a lower pressure by Pressure Reducing Value [PRV] and to a constant vacuum at the AVR. The gas under vacuum passes through a Gas or Rotameter and Flow Control Valve [FCV]. A Differential Pressure Regulator [DPR] is provided for Chlorinators above 6 Kgs/hr capacity, to control the pressure drop across the Flow meter and also to ensure accurate and steady flow of gas. The chlorine gas then gets mixed with the water at the injector and is discharged to the point of application. Safety Valves like Check Valve, Emergency Drain Valve, Pressure Relief Valve and Vacuum Relief Valve are provided in this System to make it safe for both Operating Personnel and Equipment's longevity.



SAFE WATER



SAVE WATER

# Getting Ahead



## WHO WE ARE...

We Design, Manufacture, Supply, Service, Erect, Test and Commission both Vacuum Feed and Gravity Feed Types / all Models fo Chlorination Systems, and Accessories on a turnkey basis. The Capacity Ranges from 100 Gms / hr to 250 Kgs / hr. Any kind of Automation can be provided.

We Design, Manufacture, Supply, Erect and Commission Electrically Heated or Steam Heated Commission Evaporators for Sulphur - di - oxide and Ammonia.

We Design, Manufacture, Supply, Erect and Commission Electro - Chlorinators for onsite generation of Sodium Hypochlorite with capacities ranging from 15 Gms/Hr to 15 Kgs/ Hr Chlorine equivalent.

All the products are tailor made for each client's requirements.

We also undertake Operation and Maintenance / Annual Maintenance / Servicing / Revamping / Erection and Commissioning / Supply of Spares for any make, any Capacity, Any Model, any Type fo Chlorination System.

" Purity, Quality and Safety is our Mantra" and it is practiced right from selection of raw materials to production of finished goods and till completion of work, to the fullest satisfaction of the Client.

We have ISO 9001:2000 Certified Company.

## CHLORINE GAS MUNICIPAL WASTE WATER TREATMENT

1. Elimination or reduction of colors and odors: Color and odor-producing substances present in wastewaters are oxidized by chlorine. The oxidizing ability of chlorine is employed for odor control and color removal in treatment of municipal waste water and many industrial effluents (beet sugar, cannery, dairy, pulp and paper, textiles).
2. Disinfection: Owing to its strong oxidizing capacity, chlorine destroys or inhibits growth of bacteria and algae.
3. BOD reduction: Chlorine accomplishes BOD reduction by oxidation of organic compounds present in wastewaters.
4. Oxidation of metal ions: Metal ions which are in reduced state are oxidized by chlorine (e.g., ferrous to ferric ion and manganous to manganic ions).
5. Destruction of cyanides, phenols and detergents.
6. Control of foams and flies.
7. Aiding scum and grease removal.

## CHLORINE HANDLING, STORAGE, SAFETY, TESTING AND MONITORING DEVICES :

### HANDLING AND STORAGE DEVICES :

1. Tonner Roller Supports or Trunnions
2. Lifting Beam with Adjustable Hooks
3. Electrical Hoist.

### SAFETY DEVICES :

1. Chlorine cylinder Emergency kit A & B
2. Chlorine leak detector
3. Wind Sock
4. Emergency Eye wash and shower
5. Gas mask with canister
6. Instant air resuscitator
7. Ammonia torch with dipping rod
8. Chlorine tonner leak absorption system
9. Full face Mask, Pvc Suit, Gloves and Gum Boots.
10. Double stage self contained open circuit air breathing apparatus



## I-TECH SYSTEMS

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