

CHLORINE FEEDING EQUIPMENT

BULLITIN 699

REVIEW OF VARIOUS TYPE OF CHLORINATORS

Various types of chlorination equipment for conventional water and waste-water treatment practices are illustrated below. Safe and effective handling techniques are practised in the chlorinator incorporating the rapid advancement in the art of chlorination. Applications of chlorine must be carefully controlled in order to accomplish the treatment objective. Large quantities of chlorine can be safely confined in heavy-duty ton containers to facilitate shipment and handling. Chlorine can be withdrawn from these containers in either liquid or gaseous state.

TYPES OF CHLORINATORS

- * VACUUM TYPE CABINET - MODEL R103
- * VACUUM TYPE CYLINDER MOUNTED MODEL CMC
- * VACUUM TYPE WALL FRAME MOUNTED MODEL WM
- * ABSORPTION TOWER TYPE MODEL GVT
- * HYPOCHLORITE FEEDER MODEL STERIFLO
- * HYDROPURE DRINKING WATER PURIFICATION SYSTEM

VACUUM TYPE CABINET - MODEL R103

Model R-103 floor cabinet mounted Chlorinators are vacuum operated, solution feed devices are available with wall mounted remote vacuum regulator. The injector is floor mounted, away from the Chlorinator cabinet, which houses a Rotameter, a flow control valve, a differential regulator and a vacuum relief valve.



REMOTE VACUUM REGULATOR

Exclusively designed Remote vacuum regulator is a vacuum-to-open and normally closed device. It continuously monitors vacuum and regulates gas flow. When located as close as possible to the source of gas supply, the risk of handling gas under pressure is reduced to a minimum. Feed range is 20:1 for any flow meter. The flow meter has an accuracy of 4% of the indicated flow.

IEC Chlorinator Model R-103

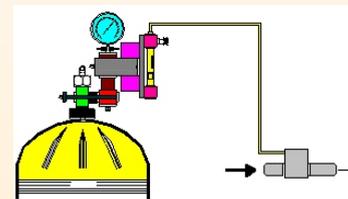
Capacity Available 1,2,3,4,5,10,20,30,40,50,75,100, 150,180&200 kgs/hr of chlorine gas.

CYLINDER MOUNTED CHLORINATOR

The CMC Chlorinator is directly mounted on the tonner / cylinder with a yoke arrangement. Chlorine gas is conveyed only under vacuum to ejector which ensures safety.

Vacuum is created at the ejector by the motive water

pressure. The vacuum extends to the vacuum regulator. Unless the vacuum is available at the regulator, chlorine gas will not pass through. In case of any failure of water supply, the gas will automatically stop to provide maximum safety to the operator. The rate valve is manually adjustable and the rate of flow can be monitored in the flow meter.

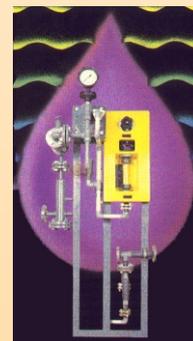


The ejector assembly receives the chlorine gas and mixes the gas with water to form chlorine solution which is discharged to the point of application. The ejector has a check valve which prevents back flow of water in to the vacuum regulator.

Capacities available - 200 gms/hr, 500 gms/hr, 1, 2, 4, 6 and 10 Kg/hr.

VACUUM TYPE WALL FRAME MOUNTED MODEL WM

Model WM Frame mounted Chlorinators are solution feed, vacuum operated, frame mounted type. Feed range is 20 to 1 for any rotameter. The flow meter maintains the set feed rate within 4% of indicated flow.



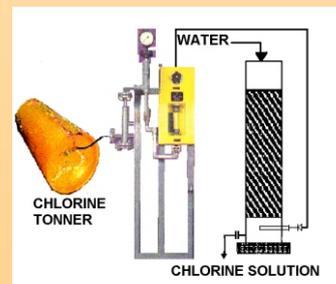
Operating components are mounted on moulded fibre glass panel. The panel and other accessories like injector are totally mounted on a frame, suitable for floor mounting.

Vacuum regulator is of exclusive design for a vacuum to open type safety feature. It opens only under normal operating vacuum.

Capacities available- .2, 1, 2, 4, 6, 10, 25, 40, 50 Kg/hr.

GRAVITY FEED ABSORPTION TOWER TYPE CHLORINATOR

Absorption tower type Chlorinator is a solution feed Chlorinator. Chlorine gas is mixed with water to form chlorine solution in the packed column. The tower is packed with raschig rings to increase the area for chlorine water mixing.



Chlorine solution is taken to the point of application. Since the chlorine solution is discharged at atmospheric condition the dosing must be by gravity.

Capacity Available 1, 2, 5, 10, 20, 30, and 40 Kg/hr.