

Chlorinator

MODEL C-731 (Wall Mounted)



CHLOROTECH Model C-731 is the advance technology Chlorinator designed to feed chlorine gas at a controlled rate. The flow rate of gas is maintained by constant positive acting spring-opposed diaphragm regulators.

SPECIAL FEATURES

Vacuum Regulators:

Operate on diaphragm backed by Silver Spring vacuum regulator directly mounted on toner consisting of electrically operated heater for smooth flow of gas in cold climate; and as such, system remains under vacuum condition till dosing point.

Differential Regulator:

Maintains steady flow rate and maintains constant vacuum between rate valve and flow meter.

Rate Setting:

Manual adjustment at the rate valve located on differential regulator body along with flow indicator.

Capacity:

10 Kg/hr to 200 Kg./Hr. or 10,000 P.P.D. (Pounds/Chlorine per 24 Hours)

Range:

Within the basic 200 Kg./Hr. Capacity, the CHLOROTECH Chlorinator is capable of operating overflow ranges from 20 to 1, which are dependent upon the type of flow meters used.

Water Requirement:

The water supply flow rate and pressure requirement depend upon the maximum Chlorine capacity and back pressure at the outlet of the ejector. Back pressure includes the pipe functional losses between CHLOROTECH Chlorinator and the point of application, plus existing back pressure at the point of application.

Semi Automatic Operation:

The Chlorine regulator will permit gas flow only when the ejector furnishes sufficient vacuum. To operate the CHLOROTECH Chlorinator, it is necessary to initiate the ejector water flow. To stop CHLOROTECH Chlorinator, it is necessary to interrupt the water flow. This 'On/Off' operation makes CHLOROTECH Chlorinator semiautomatic. It can be accompanied by opening and closing of a solenoid valve in the injector water line.

INSTALLATION

The cabinet must be installed vertically and fastened to the floor. Trained service engineers are available to install and service CHLOROTECH equipment at extra cost.

Following Optional accessories available at extra cost

- ✓ Booster Pump. (When water supply pressure is insufficient to operate the Chlorinator.)
- ✓ Piping for chlorine solution drain and vent.
- ✓ Chlorine solution diffuser. (Injection fitting for pressure pipe line applications.)
- ✓ One or more of the following items may be needed for a particular installation.
- ✓ Chlorine Scale (Weighing Machine).
- ✓ Colorimetric Comparator (Test Set).
- ✓ Check valve for Chlorine Solution Line.
- ✓ Auto Dosing Valve
- ✓ Electrical Drum Change Over
- ✓ Mechanical Change Over
- ✓ B.A. Sets
- ✓ Emergency Repair Kit
- ✓ Safety Shower
- ✓ Leak Detector
- ✓ Analyzer
- ✓ Safety Clothing
- ✓ Canister mask

Optional accessories available at extra cost

OPERATION

As water under pressure flows through the ejector assembly, the vacuum is created in the ejector. This vacuum exists at reduced values back through the differential pressure regulator and the vacuum regulator are stacked to form a single unit - the Chlorine regulator.

The vacuum in the vacuum regulator moves the diaphragm which unseats the inlet valve, reducing the Chlorine gas from supply pressure to water column vacuum.

The Chlorine gas then passes through the flow meter, the manual rate valve and into differential pressure regulator. This regulator maintains a constant pressure drop across the rate valve. The gas flows from the regulator to the ejector where Chlorine mixes with water to form Chlorine solution, which is carried through the distribution system to the point of application.

Semiautomatic, or start/stop operation is accomplished by starting and stopping the water flow through the ejector by a solenoid valve or other means.



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Ejector E-731



The ejector creates a vacuum in the system by virtue of water under pressure passing through its venturi and opening the check valve. This spring opposed the check valve prevents water entering the vacuum gas pipe work on shut down of the system. The gas entering the ejector under vacuum via the check valve is vigorously mixed with the incoming water flow prior to injection into the water to be treated.

Capacity : 10 Kg/Hr to 200 Kg/Hr

Maximum back pressure : 10 LBS

Water inlet connection : 2" to 4" PVC Flange As per ANSI Standard

Vacuum gas connection : 25mm to 40 mm PVC union

Solution outlet connection : 2" to 4" PVC Flange As per ANSI Standard

Vacuum gas connection : 25mm to 40 mm PVC union

Technical Data

Material of Construction : CHLOROTECH Chlorinator is non-corrosive to dry and moist Chlorine gas and Chlorine solution where necessary.

Regulator Body : Ebonite, P.V.C. or A.B.S.

Regulator Diaphragm: P.T.F.E. or C.T.F.E

Regulator Valve : Silver.

Ejector Block : Ebonite, P.V.C or A.B.S.

Springs : Silver plated silver alloy.

Overflow and Check Valve : Precision balls and seat P.T.F.E. or P.V.C.

Chlorine Gas Vacuum Piping : P.V.C.

Flow Meter Tube : Heavy wall, precision Bore Glass Borosilicate.

Metering Floats : (Low flow rates) P.V.C. or P.T.F.E.

Metering Floats : (High flow rates) Silver or P.V.C.

Type Operation : Vacuum

Control : Manual or Semiautomatic

Range of Operation : 20 : 1 set by hand.

Accuracy : +/- 4%.

Cabinet : Special steel, polyester-gray colour.

WE RESERVE THE RIGHT TO MAKE DESIGN IMPROVEMENT AND OTHER CHANGES AT ANY TIME WE FEEL IT DESIRABLE TO DO SO.



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Remote Vacuum Regulator



Moc for Remote Vacuum Regulator

Sr No.	Description	MOC
1	Filter Plug	Phrosprous Bronze
2	Filter Cap	Phrosprous Bronze
3	Inlet Gasket	Teflon
4	Bolt	S.S
5	Inlet Assembly	Phrosprous Bronze
6	Screw	S.S
7	Body Plate	Brass
8	Inlet Capsule	4.4 Deg. C
9	Screw	S.S
10	Back Body of regulator	PVC
11	"O" Ring	Viton
12	Diaphragm Back Plate	PVC
13	Diaphragm	Teflon
14	Diaphragm Front Plate	PVC
15	Vent	PVC
16	Front Body of Regulator	PVC

Remote wall panel mounted Vacuum regulator, Vacuum is controlled by a spring opposed diaphragm via which via the throttling action of the inlet connected valve, reduces the gas from a varying supply pressure to constantly regulated vacuum for safe transport to the point of application.

Pressure relief is provided by a spring loaded diaphragm actuated pressure relief valve The Pressure relief Valve Will be open when the inlet Pressure is excessive. The inlet Valve does not shut off and no vacuum is being Created or is over come. The pressure relief Valve is Connected to the vent.

The regulator is equipped with a gas pressure gauge to provide local indication of gas supply status.

The pressure gas inlet connection incorporates a lead seal, filter assembly and liquid trap with pad heater

Capacity	10kg/hr to 200 kg/hr
Inlet	¾" Cs union
Outlet	¾" to 2" CPVC Union.
Vent Connection	½" CPVC Union
Weight	12Kg
Make	Chloro Tech