



WEEN CHLORINATOR SYSTEM

WEEN TECHSOL PVT LTD

Your Partner for Water & Wastewater Solutions

INTRODUCTION

We are a dedicated team of Water & Wastewater experts, established during the pandemic, driven by resilience, innovation, and technical excellence. With cumulative more than 250 years' experience across diverse industries - including Pharma, Textile, Oil & Gas, Petroleum, and Food & Beverages - WEEN deliver reliable and sustainable solutions tailored to client needs.

Our core expertise spans Water Treatment, Wastewater Management, Recycling, and Seawater Desalination, backed by strong engineering and consultancy capabilities.

CONSULTANCY

We provide End to End consultancy in Water & Wastewater systems across diverse industries. Our expert Team manages activities from Water Audit to the Project Management consultancy.

PRE-BID & DETAIL ENGINEERING

Providing end-to-end pre-bid analysis and detailed engineering for Water & Wastewater projects.

Ensuring precise design, compliance, and efficient project execution.

READY-ENGINEERED UF, RO SKID SYSTEMS

Standardized UF, RO skid systems, and packaged skid units tailored for diverse water & wastewater treatment needs. Delivering compact, cost-effective, and performance-driven solutions.

VACUUM CHLORINATOR UNITS

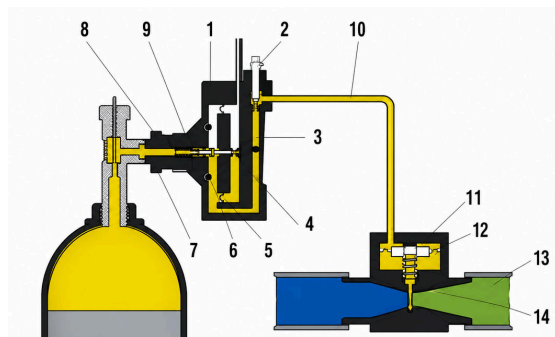
WEENCHLOR utilizes the latest technology to cater to all disinfection requirements in water and wastewater treatment systems. The WEEN Chlorinators are backed by over 20 years of industry experience in this sector.

GENERAL INFORMATION

The WEENCHLOR is a state-of-the-art chlorinator using the latest technology to provide the best quality and best value for money.

Conforms to DIN 19606 as well as IS 10553 PART-II

MOC	- Acrylonitrile Butadiene Styrene (ABS), Special PVC - Monel, pure Silver, Tantalum. - ECTFE foil, FPM/FKM, PTFE, PVDF. - Borosilicate glass flowmeter
MOUNTING	- Direct Cylinder and Ton-Container mounted. - Manifold & Wall mounted.
WORKING PRINCIPAL	Supersonic & vacuum based.
SPECIALITY	- WEENCHLOR'S Injection moulded parts, have much better self-life than the parts machined from Bar stocks. - Supersonic design gives stable dosing while eliminating the use of DPR. - Automatic high vacuum safety locking.



- | | |
|----------------------------|----------------------|
| 1) Vacuum Regulator Casing | 8) Inlet Valve |
| 2) Rate valve | 9) Spring |
| 3) Flow Meter | 11) Ejector Casing |
| 4) Vacuum Regulator Spring | 12) Membrane |
| 6) Washer | 13) Non-return Valve |
| 7) Adaptor | 14) Ejector Spring |

HOW MUCH CHLORINE

The amounts of chlorine shown in the table below are typical dose rates for everyday use.

Treatment	Typical rates mg/l	Purpose
Drinking water/Culinary Purpose		
Oxidation	Up to 5	Pre-chlorination
	Up to 0.5	Post-chlorination
	3-5	Taste & odour control
	2-10	Iron & Bacteria Control
	0.63 x Fe	Precipitation of iron.
	1.3 x Mn	Precipitation of manganese.
	2.1 x H ₂ S	Hydrogen Sulphide odour control.
Wastewater	1-15	Raw sewage & odour colour
	8-10	Primary effluent settlement
	3-10	Primary Effluent Treatment
	2-8	Activated Sludge Effluent
	30-45	Septik tank effluent
	5-10	BOD Reduction
Water		
General	3-5	Alge
Cooling	5-15	Shock Treatment
Cooling	3 - 5	Continuous Treatment
Chilling	20	-
Surface	1 - 10	-
Well	1 - 5	-
Swimming Pool		
	1 - 5	Disinfection of Alge and control

BRIEF INTRODUCTION TO PRODUCT

M20 Series Vacuum Regulator and Chlorinator

- **Capacity** : 200 g/h to 15 kg/h
- **Mounting** : Cylinder/Tonner/ Wall/ Manifold
- **Turndown ratio** : 20 : 1
- **Gas can handle** : Cl_2 , SO_2 , CO_2 , NH_3
- **Optional** : Alarm for Gas, Full/empty
Dripleg with Heater



Vacuum Reg M20



Ejectors M 300

M300 Series Ejectors

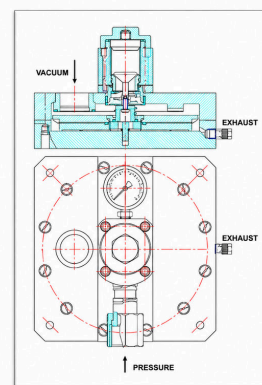
- **Capacity** : 200 g/h to 15 kg/h
- **Mounting** : Inline and /or Bracket
- **Feature** : Built-in Check Valve.
- **Back Pressure** : Standard - 6 bar
Reinforced - 10 bar.

M40 & M50 Series Vacuum Regulator and Chlorinator

- **Capacity** : M40
20 kg/h to 40 kg/h
: M50
50 kg/h to 200 kg/h
- **Mounting** : Wall
- **Turndown Ratio** : 20:1
- **Gas can Handle** : Cl_2 , SO_2 , CO_2 , NH_3
- **Optional** : Alarm for Gas Full/empty
Dripleg with Heater,

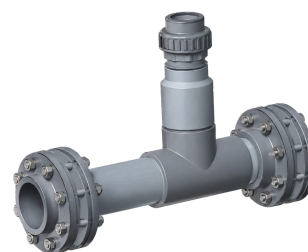


M40



M340 & M350 Series High-Capacity Ejectors

- **Capacity** : 20 kg/h to 200 kg/h
- **Mounting** : Inline and /or Bracket
- **Feature** : Built-in Check Valve.
- **Back Pressure** : Standard - 6 bar
Special custom designs are also available.



Ejector M340 & M350

M200 Series Remote Chlorinator with Rate Valves

- **Capacity** : 20 kg/h to 200 kg/h
- **Mounting** : Wall
- **Feature** : With Flow control
Rate Valve.



M200 Series Remote Chlorinator

M200 Series Remote Chlorinator with Rate Valves

- **Capacity** : 20 kg/h to 200 kg/h
- **Mounting** : Wall
- **Feature** : With Flow control Rate Valve.

Automatic Vacuum Switchover Unit M400 Series

- **Capacity** : up to 120 kg/h
- **Mounting** : Wall
- **Feature** :

The automatic switchover system is completely vacuum operated device and automatically switches chlorine feed from an empty chlorine source to a full chlorine source, without manual reset. Optionally it can be equipped with electrical signal indicating which source is in use. The switch occurs mechanically and no additional energy is required.

Automatic dosing chlorinators with Motor driven rate valve

Electronically controlled motor driven rate valve is designed for accurate feed of chlorine gas and other technical gases into water.

- **Capacity** : up to 120 kg/h
- **Mounting** : Wall
- **Feature** :
 1. 4 –20 mA PROPORTIONAL CONTROL input.
 2. V-notch precision rate valve.
 3. Modbus COMMUNICATION
 4. High quality stepper motor
 5. 5-POINT VALVE CALIBRATION
 6. Led indication of the valve position
- **Security feature :** **Battery backup.**
Complete mechanical handling in case of power loss



Differential Pressure Regulator



Vacuum Switch Over unit



Automatic dosing Chlorinator M3603 up to 15kg/h



Automatic dosing Chlorinator up to 200 kg/h

AUTOMATIC CHLORINATOR CONTROLLER

AQUACON M 5500 C

General Information

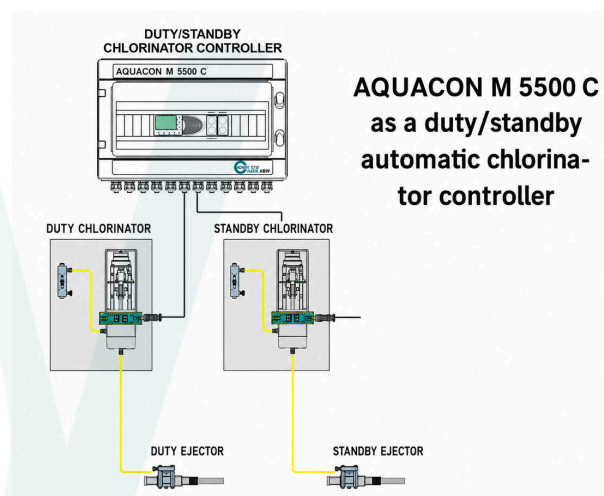
- Duty/standby control unit for control of up to two automatic chlorinators gas or liquid.
- Designed to control the process values on potable water plants, swimming pools, wastewater plants or in industry.
- IP 65 housing



Features

Different control options are available:

- Flow-proportional controller
- Residual chlorine controller
- Combination of flow-proportional and residual chlorine controller in one unit.
- 4 2- mA Inputs



AQUA Processor M 5700 C

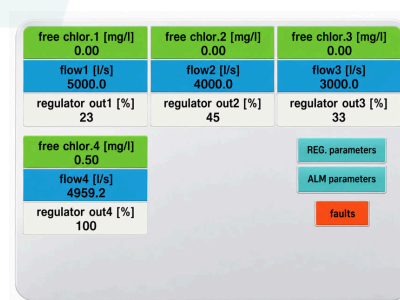
General Information

- Built with Main CPU, TOUCH screen LCD display
- Communication with PC and SCADA software
- Self-control and indication of faults
- Expandable and system adaptable (multipoint dosing)
- Data history and digital communication

Features

Different control options are available:

- Flow-proportional controller
- Residual chlorine controller
- Combination of flow-proportional and residual chlorine controller in one unit.
- 4 2- mA Inputs



EMERGENCY SHUT OFF SYSTEM

Features

- Electric power, Battery back up
- Designed for both ton containers and gas cylinders.
- Attached directly to valve body.
- Simple “clamp on system” allows actuator attachment and detachment from the valve body in seconds.
- No tools necessary, adaptable to fit any valve.
- Adjustable torque to fit any valve and specific regulations and requirements.
- Valve closure in less than 4 seconds.

General Information

Emergency Shut off System - ensures, in combination with a chlorine gas leak detector, automatic closure of chlorine cylinder or container valves in case of chlorine gas leakage. The chlorine gas leak detector detects the leakage and sends a signal to the Emergency Shut off System control panel. The control panel triggers the electrical actuator, mounted directly on the valve of the cylinder or container, which closes the valve in less than four seconds.

The operator can also manually close all the valves using the emergency button mounted outside the storage room. Once all the valves are closed, the operator can safely enter the storage room and inspect the leakage. After the source of the leakage has been identified and resolved, the operator can manually open the required valves and set the control panel to Ready Mode.

The system is simple to install. The Emergency Shut off System can be used for multiple units (cylinder or container valves). It operates on an electrical power source and includes a battery backup to ensure continued operation during a power failure.



ADVANTAGES OF EMERGENCY SHUT OFF SYSTEM

1. Instant Leak Response

Automatically closes chlorine cylinder/container valves in less than 4 seconds upon receiving a signal from the chlorine gas leak detector, minimizing chlorine release.

2. Enhanced Personnel Safety

Reduces operator exposure to hazardous chlorine gas by automatically isolating the gas source before personnel enter the affected area.

3. Automatic & Manual Operation

Reduces operator exposure to hazardous chlorine gas by automatically isolating the gas source before personnel enter the affected area.

4. Fast & Simple Installation

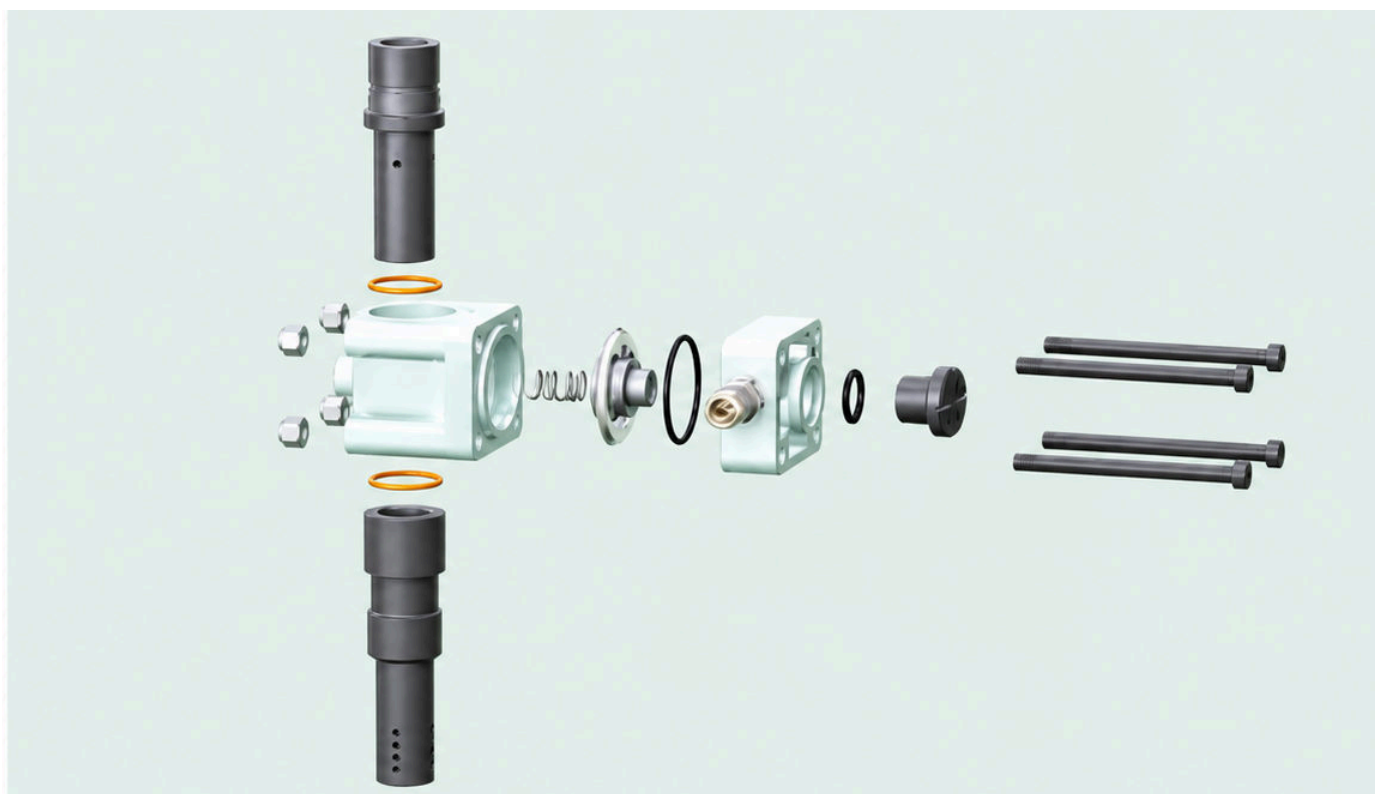
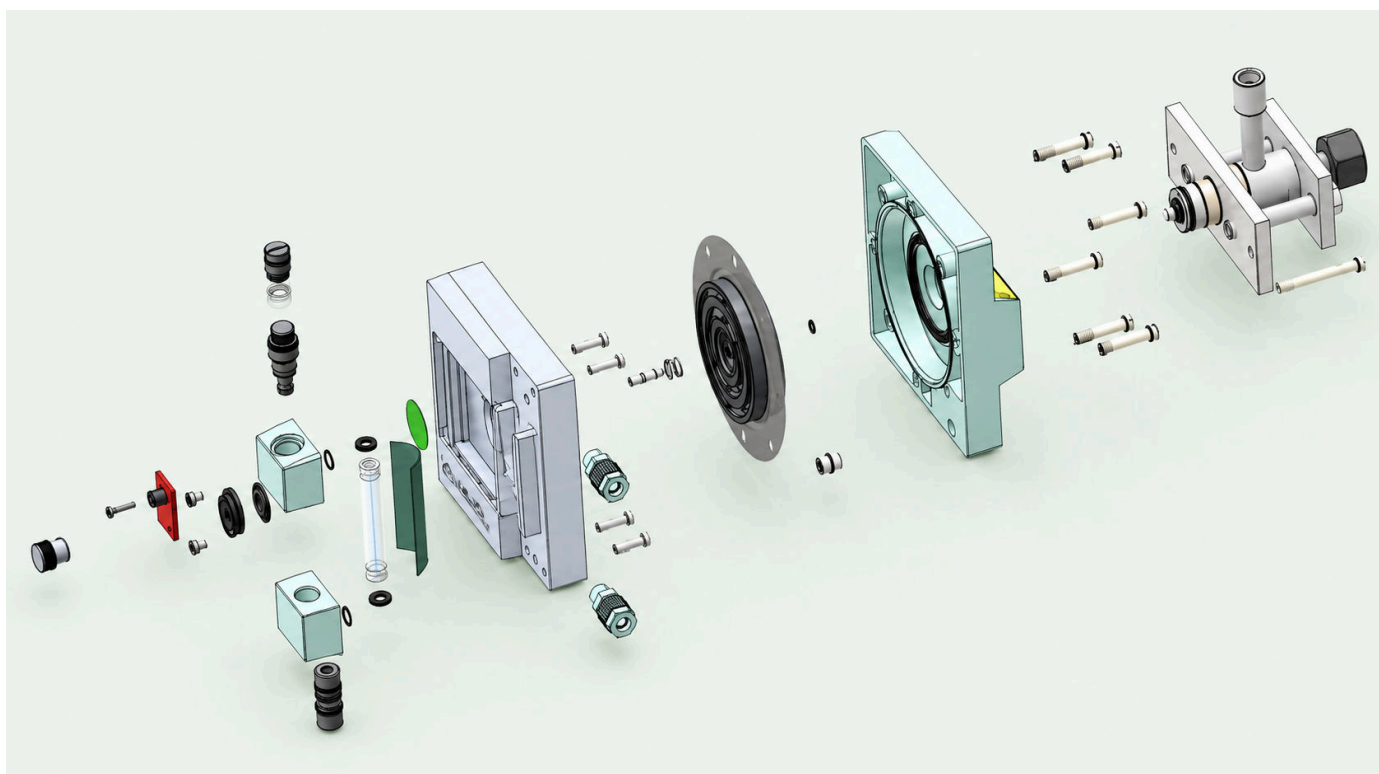
Reduces operator exposure to hazardous chlorine gas by automatically isolating the gas source before personnel enter the affected area.

5. Battery Backup for Power Failures

Continues to function during power outages through an integrated battery backup, ensuring reliable emergency operation.



EXPLODED VIEW OF CHLORINATOR



FREE CHLORINE ANALYSERS

WEEN's Free residual Chlorine Analysers are designed to measure and control of drinking water, wastewater treatment and swimming pool application.

- Measuring range 0 - 5 mg/
- 3 measuring electrodes platinum/platinum + reference electrode
- Stable measurement— open flow measurement cell with a constant flow
- Continuous cleaning of measuring electrodes
- Alarm for measuring cell or regulation errors
- CANbus communication to easily connect several units to the control unit.
- Insight in measurement cell parameters for rapid detection of interfering substances Modular electronics for simple service
- Clear graphical display for all measured parameters.



ACCESSORIES



Vacuum Switches (High & Low)

Diagnostics and settings are managed via BLE Bluetooth Smart communication on a mobile device (iOS, Android).



Vacuum Check Valves

Designed to prevent liquid (water) to enter the gas dosing system. The valve only allows gas to flow through it in one direction. Its an additional Safety feature to stop back flooding.

KEY FEATURES OF WEENCHLOR

Smart, Safe & Reliable Chlorination Solutions

WEENCHLOR Vacuum Chlorination Systems are engineered to deliver accurate, safe, and reliable gas dosing for municipal and industrial water and wastewater treatment applications. Designed with advanced vacuum technology and robust engineering, WEENCHLOR ensures efficient disinfection while prioritizing operator safety and long-term performance.

- **Maximum Safety**

Vacuum-operated technology minimizes the risk of chlorine gas leakage. Automatic vacuum locking and emergency shut-off options provide enhanced protection for personnel and plant operations.

- **Accurate & Stable Dosing**

Supersonic injector design delivers consistent chlorine dosing across a wide operating range, ensuring reliable disinfection and improved process efficiency.

- **Wide Capacity Range**

Available from 200 g/h to 200 kg/h, making WEENCHLOR suitable for small water treatment plants as well as large municipal and industrial facilities.

- **Flexible Installation**

Supports cylinder-mounted, ton-container, wall-mounted, manifold-mounted, and remote chlorination systems, allowing easy integration into new or existing plants.

- **Built for Long Life**

Manufactured using corrosion-resistant engineering plastics and premium materials for reliable performance even in harsh chlorination environments. Injection-moulded components offer improved durability and service life.

INDUSTRIAL APPLICATION

✓ **Drinking Water Plants**

✓ **Municipal Water Supply**

✓ **Wastewater Treatment Plants**

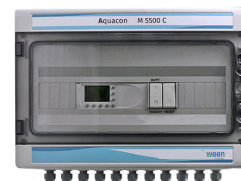
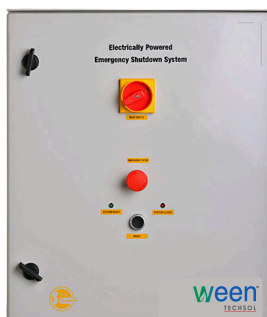
✓ **Cooling Water Systems**

✓ **Industrial Process Water**

✓ **Swimming Pools**

✓ **Food & Beverage**

✓ **Sewage Treatment Plants**



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