

CHLORO +[®]

Security Chlorinator CIFEC

WATER
CHLORINATION



+ ACCURATE + RELIABLE + SUSTAINABLE

Made of Chloraflon, 5 Years warranty

Resists to chlorine chemical attacks

LIFETIME OVER 30 YEARS

Compagnie Industrielle de Filtration et d'Équipement Chimique

12 Bis, rue du Commandant Pilot

92200 Neuilly-sur-Seine - France

Tél. 01 46 40 49 49 – Fax. 01 46 40 00 87

Web. www.cifec.fr – Email. info@cifec.fr – Boutique : www.shop.cifec.fr



Matériel de qualité



Certifiée ISO9001 v.2008
N°2007112002



- ✓ 50 years experience
- ✓ Water treatment specialist
- ✓ French manufacturer



A chloromètre is a device used to inject the chlorine gas in the water, in a secure way. With this kind of device, the chlorine is not under pressure but under vacuum, making impossible any leak of chlorine gas on the network of injection.

The chlorine gas is the purest and the most stable source of chlorine.

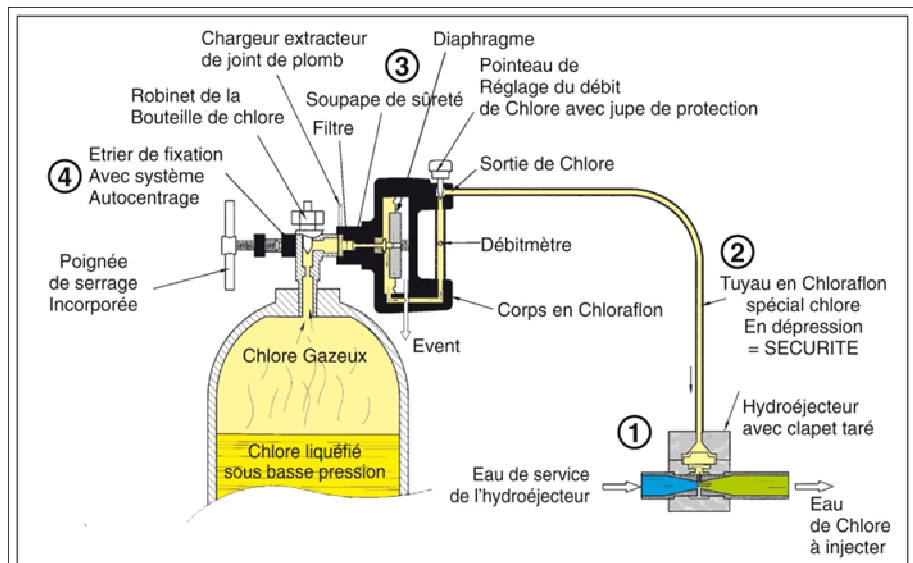
It is the easiest system to use on the market!

The chlorinator CHLORO + has to be connected directly on the chlorine cylinder, with a system of auto-centering yoke joint and a patented exclusive clip / extractor of the cylinder gasket.

Vacuum functioning

An injector (1) with check valve assembly is fed by boosted water. Thanks to its venturi system, it creates a depression in the tubing (2). This one is transmitted to the chlorinator CHLORO+, directly connected on the chlorine cylinder. With the vacuum created, the safety inlet valve (3) opens and releases chlorine gas. It circulates in depression to the injector. When boosted water is stopped from feeding the injector, the depression is interrupted and the safety valve closes. In case of a break in chlorine gas tubing, atmospheric air is sucked up into the tubing but chlorine gas can't leak by automatic shut off of the chlorinator CHLORO +.

It is called : Security chlorinator



**No chlorine gas
leak
on network**

4 different kinds of chlorinators : With glass tube and dosing valve, with glass tube only, without any glass tube or valve and chlorinator for 1 ton drum



Chloro+ 805 ST
Sans tube gradué
Sans vanne de réglage



Chloro+ 805
avec tube gradué
Sans vanne de réglage



Chloro+ 801
avec tube gradué
et vanne de réglage



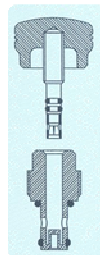
CHLORO+ sur tank

Chlorine flow rate dosification

- ✓ On a CHLORO+ 801 or on a wall mounted flowmeter
- ✓ Multiple flowmeters can be feed by only one chlorinator.
- ✓ There are equipped with a specific high precision needle valve, sonic speed type, specially made for chlorine gas. Adapted to any chlorine gas flow rate (Page 4)

Advantages :

- Made of chloraflon, 5 years warranty
- Ranges is easy to change
- High accuracy needle valve
- Patented protective sleeve
- Large choice of glass tubes

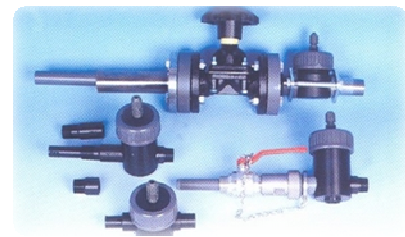


Injector

- ✓ Thanks to the circulation of water in the injector, vacuum is created and chlorine gas is sucked up and solved in water.
- ✓ Multiple injector can be feed by one chlorinator.
- ✓ One injector needed for each injection point.

Advantages :

- Made of chloraflon, 5 years warranty
- Check valve assembly adapted to back pressure
- Large choice of injection probes
- Possibility to use it even with very high back pressures (up to 16 Bars)



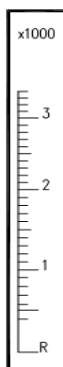
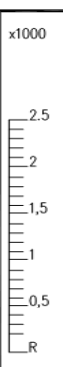
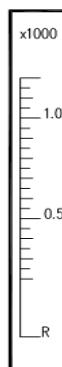
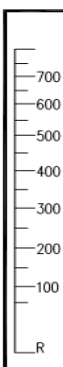
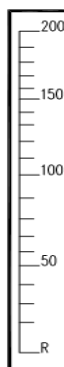
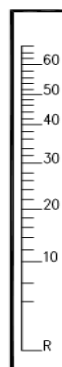
CIFEC dosing valves, with high accuracy. Dosing from 1 g/h to 28 g/h in 4 rotations :

Remains stable even with temperature variations.

- ✓ Those needle valves are adapted to the chosen flow rate
- ✓ Very accurate dosing thanks to the specific needle and range choice.
- ✓ Une jupe de protection en assure la robustesse et la longévité (système breveté).

GAMME DE TUBES GRADUES, Taille 81mm

REF.	11KM314-E	11KM431-B	11KM450-B	11KM315-D	11KM316-D	11KM401-D	11KM317-D	11KM318-D	11KM448-B	11KM319-D	11KM438-B
DEBIT MAXI	12g/h	19g/h	45g/h	66g/h	100g/h	200g/h	350g/h	800g/h	1200g/h	2500g/h	3400g/h
DEBIT MINI	2g/h	2g/h	4g/h	6g/h	10g/h	20g/h	30g/h	50g/h	200g/h	200g/h	400g/h
DEBIT MINI AUTO	3g/h	5g/h	10g/h	15g/h	25g/h	50g/h	80g/h	150g/h	300g/h	600g/h	800g/h



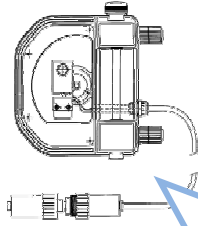


Visibility : A glass tube directly on the front body enable to check the correct circulation of chlorine gas trough the Chloro+. Our phone after sales service is more efficient with it.

Empty cylinder indicator :
Green : Cylinder has chlorine gas
Red : Cylinder is empty and needs to be replaced



Complementary device for the CHLORO+. Gives an electrical information when cylinder is empty. Auto rearmement



Optional : A electrical dry contact for empty cylinder can be integrated in CHLORO+'s body. Its gas proof conception gives it a excellent reliability. Manual rearmement.

Vacuum detector CV02

Electrical dry contact

3 Pieces connecting nuts made of chloraflon. Easy gas proof. Tubings are in chloraflon too.

Unique in the world :
Made of Chloraflon

Security : With the special clip extractor of cylinder gasket. It is a patented system only for CHLORO+. Once the gasket is put in, it cannot fall and is centered. As it happen sometimes on classic systems. Gas proof is obtained at first try. It securises a lot the operator's work.

Easy to use : with its yoke joint and auto-centering system, the CHLORO+ takes the correct position on the cylinder.



With a tightening handle incorporated to the yoke, connection can be done without any tool. Its is a free hand system, better for security.

Exclusive Patented auto filtering cartridge. It protects the entire chlorine gas network from dusts and avoid vent's leak.

5 Years warranty

Lifetime for more than 30 years. 6 times longer than a traditionnal chlorinator.

Maintenance every 5 years. On a PVC made or an ABS made chlorinator, is has to be done every year.



Sustainable product

French manufacturing

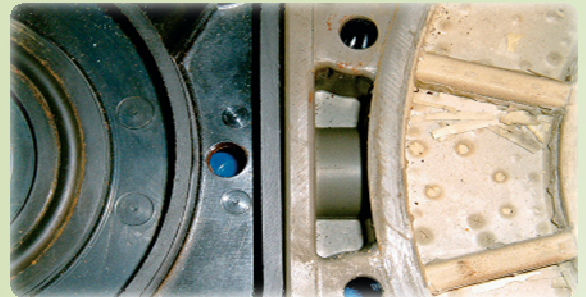
CIFEC is a French family-run company, which on principle always favored the French subcontractors to have a better traceability of products. This practice limits the shipment by boat, truck or plane, and allows to decrease the environmental impact compared with a production relocated abroad.

The use of quality materials allows to extend the expectancy and thus to decrease the generated waste

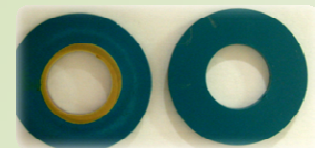
- The choice to use a fluoride polymer, Chloraflon®, is the main advantage of Chloro+. It is the only polymer which is perfectly resistant in any form of chlorine, whether liquid or gaseous, dry or humid and whether the temperature is between -50°C and +165 °C.

Thanks the Chloraflon, CHLORO+ is guaranteed 5 years.

- Devices in PVC or in ABS cannot reach such a quality level because of the weakness of materials towards the chlorine gas. Their lifetime is limited.
- The metallic parts are made of silver or Uranus B6 for the screws that must possess a strong mechanical resistance, or tantalum for the springs of the unit.
- The lead gaskets are replaced by gaskets made of elastomer, more environmental friendly.
- **The big membrane of the chlorinator is in fluoride polymer.** On usual chlorinators, this part is always very criticized during maintenance operation, it increased the maintenance costs.
- **On Chloro+ the membrane is for life.**



A Chloraflon body near an ABS body, after 10 year of contact with chlorine gas. Chloraflon has not been damaged whereas ABS was.



New cylinder gaskets made of elastomere



The valuation of waste

Once arrived at the end of life, the former devices are returned to CIFEC. They are checked and rehabilitated to become reliable devices of French loan.

This measure limits waste, and offers a more effective after-sales service.

A System of simple and stable functioning

Chloro+ is the most reliable chlorinator on the market :

- ✓ Few parts in movement,
- ✓ Stable materials and internal systems of protection adapted.

The general maintenance has to be made only every 5 years !

Are limited : the parts' transportation of spare parts , on site users' travels and shipment of chlorinators for repair.

Lower operating costs, less transportation, less pollution and thus less lost time.



OUR NATURAL RESSOURCES ARE LIMITED, WE MUST USE THEM ADVISELY



5 fois moins de temps passé sur l'appareil



5 fois moins de risque de panne



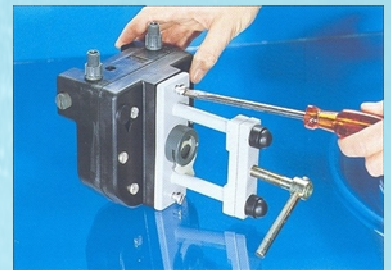
5 fois moins de déplacements d'agents techniques soit
5 fois moins de frais de maintenance
(car seuls les joints sont à remplacer)



5 fois moins de retour d'appareil pour révision

AFTER SALE SERVICE

- ✓ Very experimented chief engineers at your service and
- ✓ Spare parts available in 48 h
- ✓ Express service for chlorinators' repair(48 h)
- ✓ Free loan of a stand-by unit
- ✓ Free trainings in Neuilly, for your staff



CIFEC also proposes electrical switch-over systems type IB, pneumatical switch-overs, modulating valves MODULO + for chlorine flow regulation, chlorine cylinder storage cupboard, safety equipments, chlorine analysers AM ...

Do Not Hesitate to consult us