



Chlorinators

up to 10 kg/h

Product range



safety is our concern

Water is precious!

**We give water
quality appropriate for its use.**



Increasing demand for water in public, industrial and domestic applications renders water treatment that makes water suitable for reuse a growing imperative. As the last stage in the treatment process, disinfection is particularly important.

Reliable dosing systems are necessary for responsible addition of disinfectants to water. Through research and development, Lutz-Jesco has created system solutions in this field that set international standards.

For the disinfection of drinking water, swimming and wading pool water, process water, cooling water and waste water, different methods are used. These differ in their technical design and the type of chemicals used. Due to their simplicity of use and reliable properties, chlorine and chlorine compounds have been used successfully in water treatment for decades.

We have specialised in chlorine gas dosing technologies. However different the requirements are, our comprehensive range of well-proven units can

deliver doses of chlorine gas under vacuum conditions, or liquid chlorine compounds.

With their matching components, from chlorine dosing to analysis and warning devices, Lutz-Jesco chlorination systems meet all modern system requirements. They are distinguished by their reliability and repeated dosing accuracy.

Our systems are designed according to DIN 19606 and EN standards and ensure optimum water quality through precisely measured disinfection. We use our know-how and experience to find the best solution - technically and scientifically.

The quality of our precision equipment and our expertise are vital to our customers' success. Worldwide.



Chlorine application 4

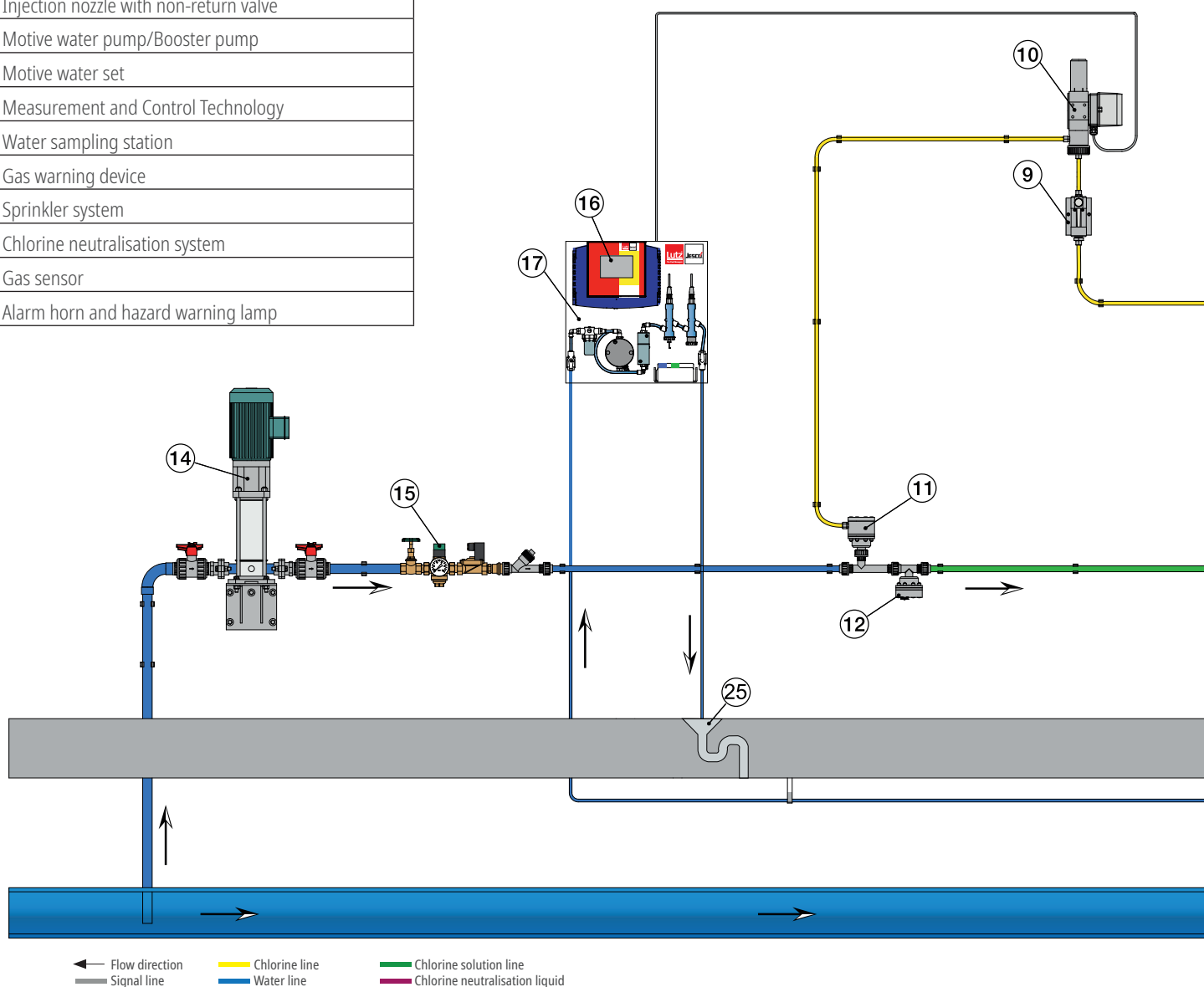
Product portfolio 6

Accessories 12

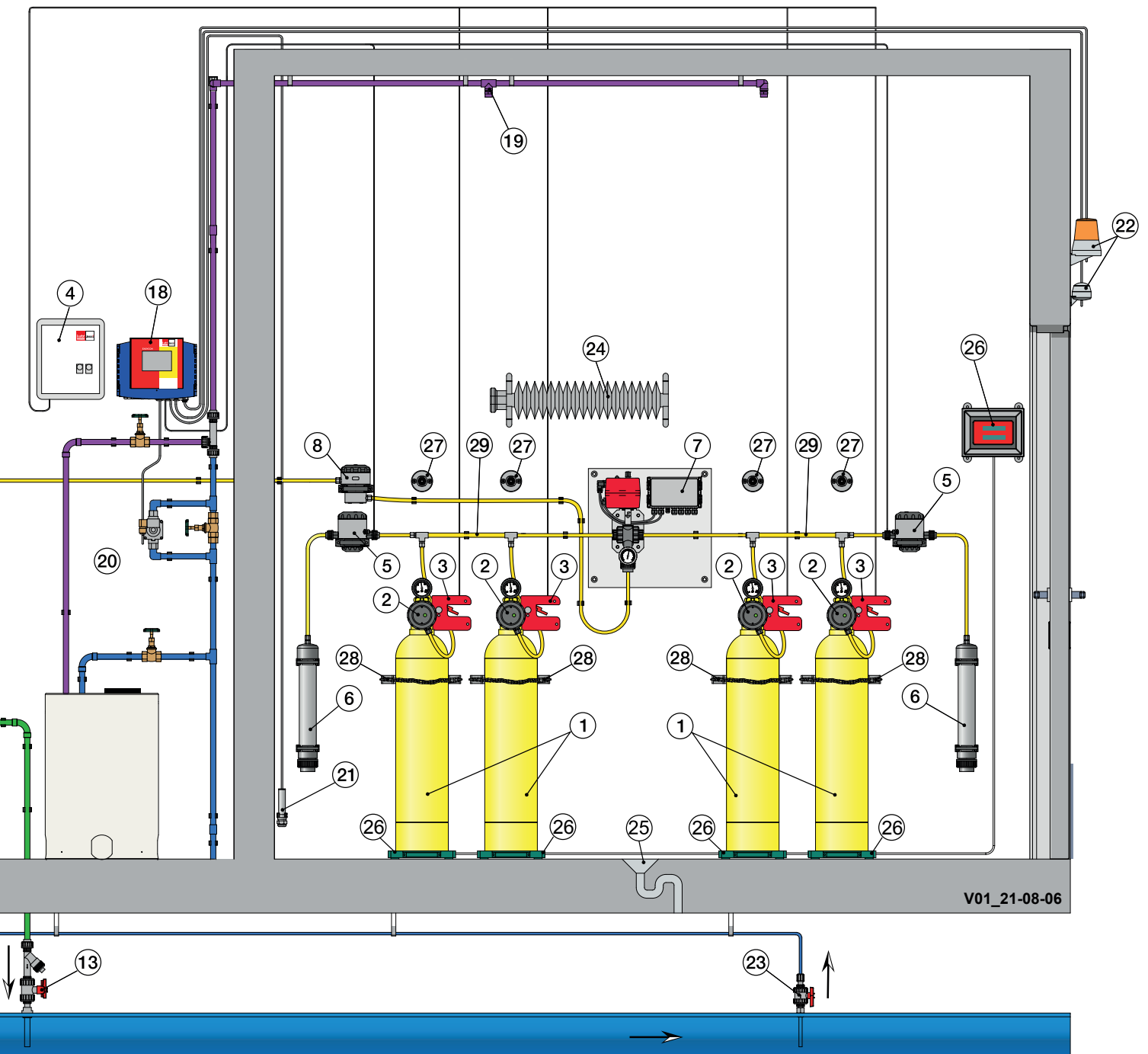
The function of a chlorinator

Item	Description
1	Chlorine tank
2	Vacuum regulator
3	Pressure safety shutoff valve
4	Control unit for pressure safety shutoff valve
5	Safety blowoff valve
6	Activated carbon cartridge
7	Electrical chlorine changeover unit (Vacuum)
8	Safety shutoff valve
9	Flow meter
10	Electrical chlorine gas control valve
11	Ejector with non-return valve and back pressure regulator
12	Vacuum breaker
13	Injection nozzle with non-return valve
14	Motive water pump/Booster pump
15	Motive water set
16	Measurement and Control Technology
17	Water sampling station
18	Gas warning device
19	Sprinkler system
20	Chlorine neutralisation system
21	Gas sensor
22	Alarm horn and hazard warning lamp

Item	Description
23	Sample water extraction
24	Heater
25	Water outlet
26	Cylinder scale with digital display
27	Wall holder
28	Chlorine cylinder holding bracket
29	Collecting pipe with flexible lines



Example of a chlorinator with gas take-off up to 10 kg Cl₂/h under a vacuum with neutralisation system (installation example: removal 1.3 kg Cl₂/h, max. 2.6 kg Cl₂/h)



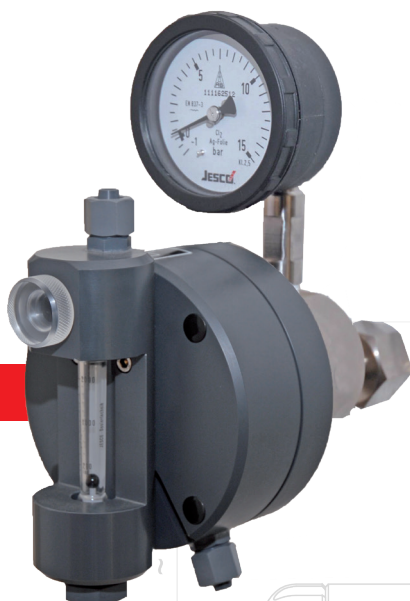
Note: The schematic diagram (inc. key) is an example of a Lutz-jesco GmbH system and does not represent part of a quote or an order confirmation.

Vacuum regulator in battery operation

The C 2213 as well as the C 2214 can be used for an equal withdrawal of chlorine gas, hydrogen chloride, carbon dioxide or sulfur dioxide. They fulfil the highest safety standards. Their diverse connections for gas containers and line systems, their pressure-side pressure gauge and residual pressure safety device make them versatile in their application.

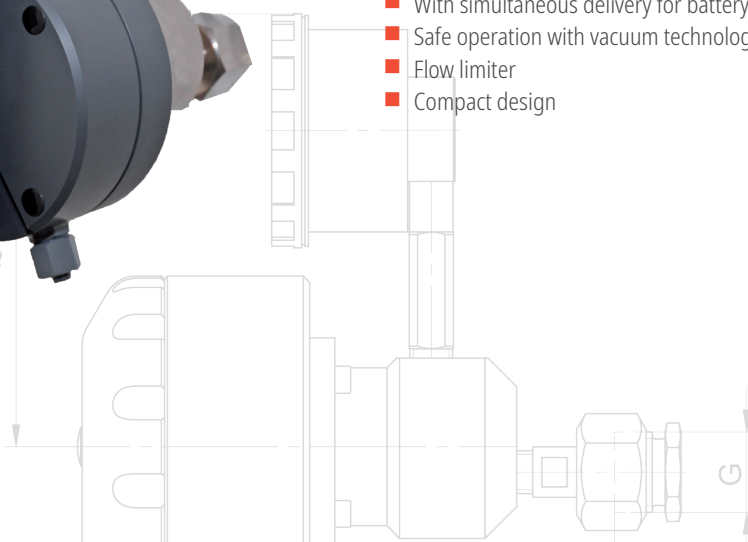
C 2214

- Up to 4 kg/h
- Gas filter
- Residual pressure preservation
- Container pressure gauge
- Integrated safety blow-off valve
- Safe operation with vacuum technology
- Flow meter with manual setting
- Compact design



C 2213

- Up to 10 kg/h
- Gas filter
- Residual pressure preservation
- Container pressure gauge
- With simultaneous delivery for battery operation
- Safe operation with vacuum technology
- Flow limiter
- Compact design



Vacuum regulator in water treatment

The C 2216 as well as C 2217 are suitable for use with water treatment with smaller and medium-sized chlorinators. With the front-fitted flow meter, the chlorine gas can be removed optimally with a manual dosing valve in a broad capacity range up to 10 kg Cl₂/h. A measuring glass with 12 different measuring areas is available for this purpose.

C 2216

- Up to 10 kg/h
- Gas filter
- Integrated safety blow-off valve
- Flow meter with manual setting
- Optical display for empty chlorine tank
- With yoke connection
- Compact design

Note: Not DIN 19606 conform



C 2217

- Up to 10 kg/h
- Gas filter
- Integrated safety blow-off valve
- Flow meter with manual setting
- Optical display for empty chlorine tank
- Optionally with pressure gauge
- With yoke connection
- Compact design

Note: The C 2217 is not fitted with a residual pressure safety device; not DIN 19606 compliant



Flow meter

- Different measuring glass lengths
- High measuring accuracy
- Local display
- Without auxiliary power
- Simple and maintenance-free design

Flow meter

The scale of the measuring tube of the Lutz-Jesco flow meter is designed as standard for the flow of chlorine gas under standard conditions (0.9 bar absolute at 20 °C). The display accuracy amounts to ± 2 % of the measured value.

safety is our concern

Vacuum chlorine changeover unit

If the power supply from the operation battery ebbs, the vacuum generated by the injector will become stronger. The control recognises the chlorine shortage using the contact gauge and activates the 3-way motor ball valve for the battery change.

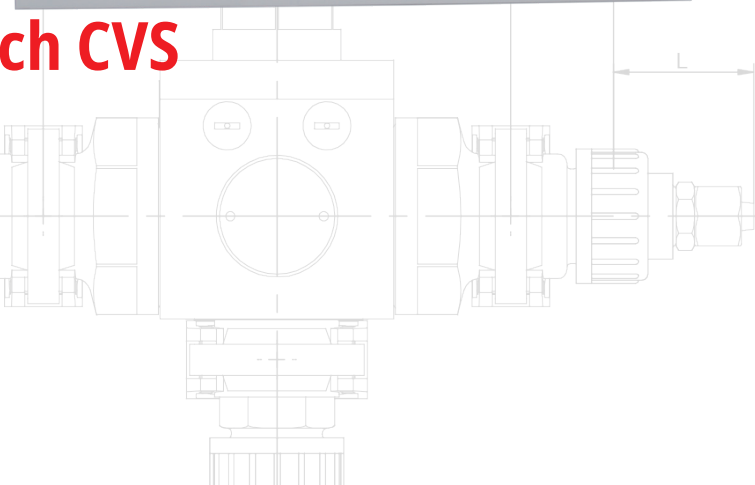
C 7523

- Capacity stages 4 kg/h up to 80 kg/h
- Residue discharge
- Control with indication of operation
- 5 relays for remote signalling
- Manual changeover via key press



Vacuum changeover switch CVS

Hazardous gases are normally conveyed in piping systems with negative pressure. The use of at least two gas containers is a precondition for a continuous gas supply. Once the first gas container is empty, the mechanical CVS vacuum changeover switch automatically switches to the second gas container without a power supply. It thus enables an uninterrupted supply.



CVS

- Scope of application up to 10 kg/h
- Compact design
- Safe operation with vacuum technology
- Without auxiliary power
- Without intervention from personnel
- Simple wall mounting
- Optical position indicator
- Optional electrical contacts for remote indication



Pressure safety shutoff valve ChlorStop

The pressure safety shutoff valve ChlorStop is designed to interrupt the chlorine gas supply or escape of chlorine gas directly from a chlorine tank following a chlorine alarm or the detection of positive pressure (e.g. by the safety blow-off valve PLUS).



ChlorStop

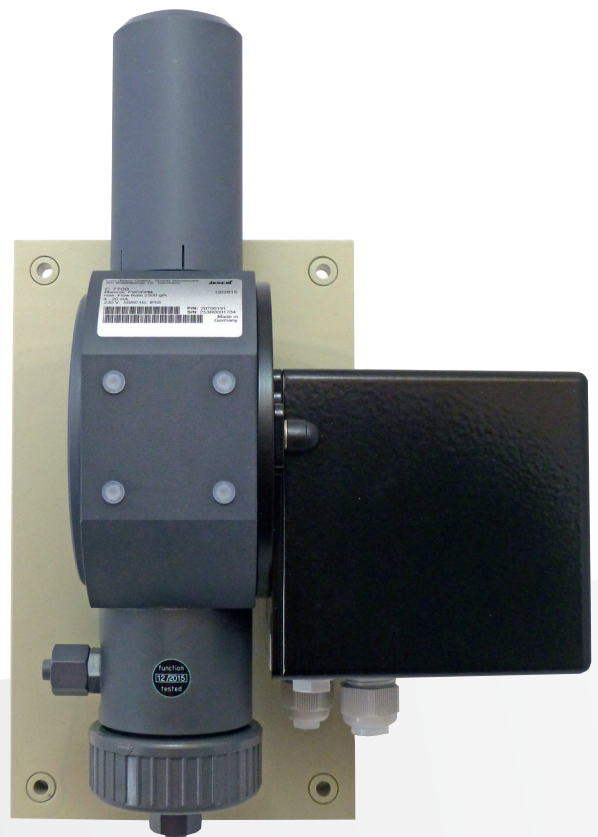
- Interruption of the chlorine gas supply directly from a chlorine tank valve
- Shortest closing time with electromagnets
- Direct connection e.g. for a chlorine vacuum regulator possible
- Suitable for gaseous chlorine
- Optional control unit for simultaneous closing of up to 12 valves
- Simple start-up
- Simple and space-saving installation
- Low maintenance effort
- For chlorine gas in accordance with DIN EN 15363 and 937

Chlorinator C 7700

The C 7700 chlorine gas regulation valve can be used for the proportional or controlled dosing of chlorine gas, carbon dioxide or sulphur dioxide. Its simple wall mounting and compact form mean that it can be deployed everywhere.

C 7700

- Flow rate with chlorine gas: up to 200 kg/h
- 3-Point step or 4 – 20 mA control
- Linear characteristics
- Mounted on a wall panel
- Manually arrestable at 100 % opening
- Flow meter and signal converter (optional)



Ejector non-return-valve / vacuum breaker

In total vacuum chlorine gas dosing systems the vacuum is generated by injectors which operate on the principle of a liquid beam gas compressor. With this type of pump the pump effect (vacuum) is produced by a water flow which draws, accelerates and compresses/advances the chlorine gas.

Ejector

- Standard injectors for up to 60 kg Cl₂/h
- Material: PVC-U
- Easy to install in pipes
- No wear parts



Vacuum breaker

- Max. pressure stage 16 bar
- Simple assembly onto ejectors
- Anti-syphon valve
- PVC / FPM

Non-return valve

- Capacity stages 6-200 kg Cl₂/h
- With back-pressure regulator (optional)
- Max. pressure stage PN 16
- Simple assembly onto ejectors
- Low opening pressure



EASYCON GW gas warning device

The EASYCON GW is Lutz-Jesco's latest generation of gas warning devices. The progressive development of the semiconductor technology makes for an ever more precise and faster sensor and measurement process.

EASYCON GW

- For use with chlorine gas, chlorine dioxide and ozone
- Compact wall casing
- Up to 4 sensors and additionally up to 4 temperature sensors
- Two alarm thresholds freely-settable per alarm sensor
- 3 – 9 potential-free relay outputs
- 4 Analogue outputs 0/4 – 20 mA
- Large colour touch-display
- Data is saved on a USB flash drive



Accessories:

- Alarm horn
- Red flashlight or orange flashing light
- Chlortest
- Back-up Power Supply

Injection nozzles and diffusers for chlorine solution

- The injection pipe (type I) enables the spraying of the dosing chemical in the centre of the pipe line, and ensures good mixing
- The non-return function (type R) prevents fluids from the pressurised system from flowing back into the ejector.
- A shutoff valve (type A) enables the dosing system to separate from the pressurised system and provides a secure shutoff during longer downtimes



CondiChlor

The dosing of chlorine gas places high requirements on the machinery and materials. If your chlorinator does not fulfil these high standards, this can result in malfunctions and device standstill. This can result in device down-time and the endangerment of persons, even if much effort is invested in the planning and set-up.

CondiChlor 10K

- The liquid chlorine is first collected from the container in a moisture eliminator and then evaporated using a heating sleeve.
- The chlorine gas is then filtered
- The valve reduces the pressure and prevents condensation in the system
- A pressure gauge displays the reduced pressure with which the chlorine gas enters the system



Accessories

Sprinkler system

- Binding and safe disposal of escaped chlorine gas
- Spraying through spray nozzles (drop size: 0.8 mm)
- Suitable for water and de-chlorinisation agent solutions

Chlorine neutralisation system

- 200 litre tank
- Hand rammer
- Ejector
- Piping and fittings
- Chlorine ball valves

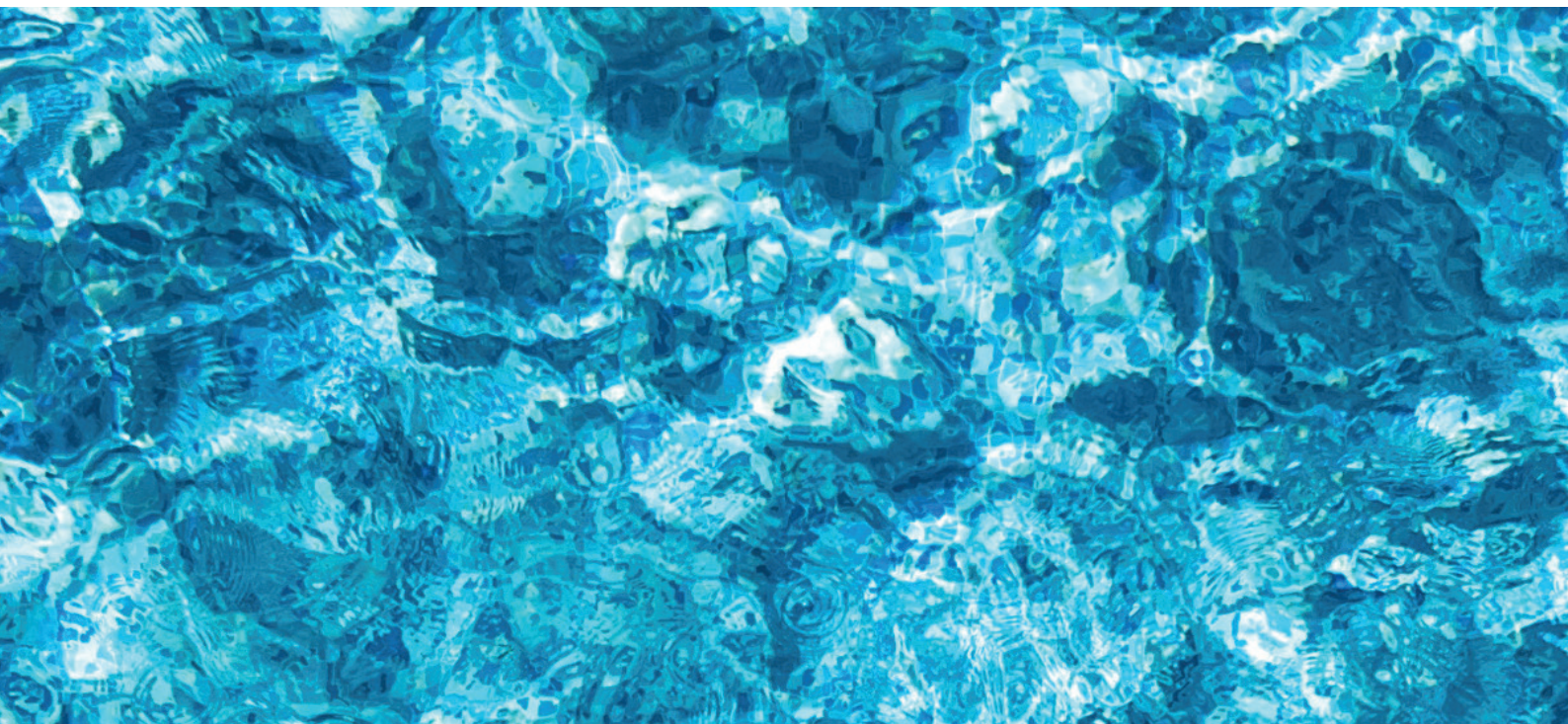


Accessories

- Heater
- Chlorine gas bottles
- Cylinder bracket
- Container scales with digital display
- Flow meter
- Activated carbon cartridge
- Manifold
- Alarm horn
- Strobe
- Flashing light
- Security system
- Motive water set
- Injection nozzles and diffusers for chlorine solution
- Booster pump
- Chlorine cylinder emergency equipment in plastic case
- Chlorine drum emergency equipment

Personal protective equipment

- Chlorine gas protective mask
- Chemicals protection suit
- Full Body Shower
- Eye shower
- Protective Equipment Kit
- Compressed-air respirator in accordance with UVV (accident prevention regulations)





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Subject to technical changes.

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