

Product Information Chlorine dioxide system EASYZON® 5

Dosing Disinfectant Properly

Water, a valuable resource and a matter of course at the same time: simply open the water tap and it bubbles out in a clear, fresh and pure flow. The water needs, however, is increasing worldwide – in industry as well as in private households. For this reason, water treatment appropriate for the use of the water is becoming more and more important. The innovative system solutions of Lutz-Jesco contribute considerably to the provision of drinking water, pool water and process water. In addition, extensive research and development achieved internationally accepted standards.

EASYZON 5 – the compact solution

In water treatment, chlorine dioxide is known as an effective oxidant and is used, among other applications, for combating Legionella.

Chlorine dioxide is characterized by a high disinfecting effect – it is effective even at high pH values that render chlorination ineffective. The odor threshold is higher than that of chlorine, and chlorine dioxide features a higher lifetime in tap water, which makes it more appropriate for widely ramified pipeline systems.

EASYZON 5 provides a compact system for the on-site production of chlorine dioxide, characterized by a high degree of product stability. The concentrated stock solution is prepared in the application and still effective after a storage time of 24 hr.

How it Works

The system operates according to the acid-chlorite process in batch mode and uses commercial concentrations of hydrochloric acid and sodium chlorite. Optimum reaction conditions are ensured by level monitors and an agitator in the reactor.

Peristaltic pumps ensure reliable delivery of the chemicals and the control unit monitors each system for fulfilling its task. If required, it also control the room air with a ClO₂ gas sensor.

Optimized reaction control ensures the production of a highly stable chlorine dioxide solution. It will still meet the requirements of DIN EN 12671.

In short

- High product stability
- Compact, pre-assembled unit
- Integrated monitoring of all the functions
- Full availability
- Supply of multiple injection points from one system



Technical data

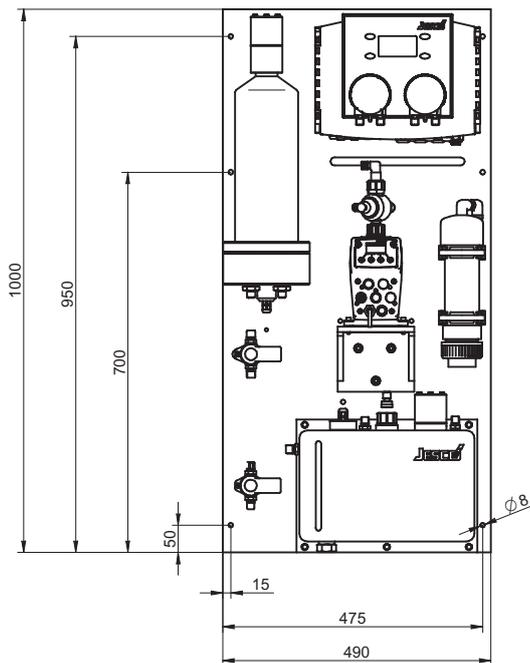
Productive capacity	5 g ClO ₂ /hr
Product concentration	2 g ClO ₂ /l
Dimensions (W x H x D)	490 x 1000 x 263 mm
Weight with filled tank	approx. 25 kg
Operating voltage	230 V 50/60 Hz
Protection class	IP 65
Power consumption	max. 100 W
Alarm relay (change-over contact)	max. 230 V/ 3 A
Operating temperature	10...40 °C
Useful volume of the product tank	5700 ml
Lifetime of the ClO ₂ solution at a storage temperature of 15 °C	> 24 hours
Chemicals used	
Hydrochloric acid	9 % according EN 939
Sodium chlorite	7.5 % according EN 938
Diluting water in drinking water quality	max. 5 l/hr 1...2 bar
ClO ₂ dosing pump	MAGDOS LK 4
Dosing pressure	up to 10 bar
Control of the dosing pump	pulse frequency

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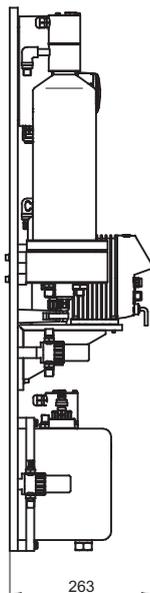
Model variants

Product name	Order no.
EASYZON 5	62001001

Dimensional figure



side view



All measurements are given in mm

Scope of Delivery

EASYZON 5 is installed on a wall plate with the following assemblies:

- Control unit with peristaltic pumps
- Reactor
- Solenoid valves
- Product tank
- Activated carbon cartridge
- Dosing pump for chlorine dioxide solution with multifunction valve

The standard scope of delivery includes 2 suction pipes (630 mm) for extracting chemicals from the commercial containers.

Accessories

In addition to the actual production system, the following accessories are available for operation and installation:

Description	Order no.
Drip basin for a chemicals container, of up to 60 l	12000118
Injection point for ClO ₂ solution for Cold water 5...30 °C Hot water 30...60 °C	12302017 12300142
Dosing hose PTFE 6/9 mm	97758
Set of warning signs for ClO ₂ systems	german 29800011 english 29800012
Comparator system for manually determining the ClO ₂ content in water	23800006
Photometer for the water parameters Cl ₂ , pH value, ClO ₂ for manually determining the ClO ₂ content in water	23800003
ClO ₂ gas sensor for monitoring the room air	78393
Pipe separator ½" in compliance with EN 1717 for the water supply	36021
Pressure reducer ½" for the water supply necessary, if the supply pressure of dilution water is higher than 3 bar)	36022
Additional solenoid valve in the water supply „AquaStop“ 230 V/ 50 Hz, ½", closed when no current is applied	88486
Protective clothing	19800001

We shall be pleased to assist in selecting further accessories for integrating the system (e.g. contact water meter, measuring and control systems, further extraction pumps for ClO₂).

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