

Product Information Chlorine dioxide system EASYZON® D

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, intensive research and development achieved internationally accepted standards.

EASYZON D – the compact solution

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

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 D provides a compact system for the on-site production of chlorine dioxide, characterized by reliable functioning and simple operation.

How it Works

The system operates according to the acid-chlorite process in continuous mode and uses commercial concentrations of hydrochloric acid and sodium chlorite.

Dosing pumps ensure a reliable delivery of the chemicals into the pressure-resistant reactor of the system. Pulse signal transmitters monitor the chemical flows and thus ensure constant product quality.

Bypass fittings for pre-diluting the chlorine dioxide solution are integrated on the panel-mounted system. In this way, the disinfectant is supplied to the site of application as a considerably diluted solution.

In short

- Disinfecting power stable over a long period of time
- Production directly on-site
- Cost-efficient
- Compact design
- User-friendly operation
- Integrated monitoring of all the functions
- Disinfection works even at high pH values



Technical data

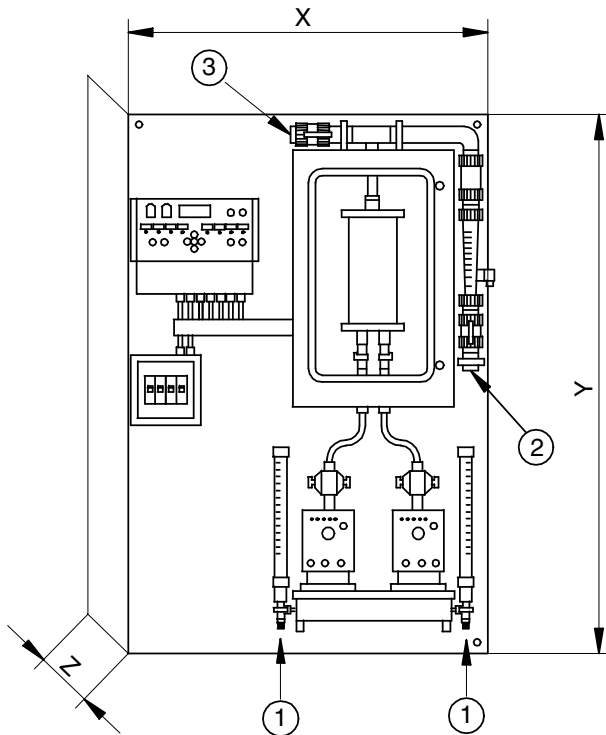
Productive capacity	48 to 1440 g ClO ₂ /hr
Product concentration	20 g ClO ₂ /l (Reactor output) < 2 g ClO ₂ /l (after dilution)
Dimensions (W x H x D)	
EASYZON 35...130 D	750 x 1000 x 340 mm
EASYZON 300...1400 D	900 x 1350 x 420 mm
Operating voltage	230 V 50 Hz
Protection class	IP 54
Ambient temperature	5...40 °C (No exposure to direct sunlight)
Chemicals used	
Hydrochloric acid	9 % according EN 939
Sodium chlorite	7.5 % according EN 938

Model variants

Product name	Max. Dosing rate	Max. Operating pressure	Order no.
EASYZON 35 D	48 g ClO ₂ /hr	12 bar	62000017
EASYZON 60 D	99 g ClO ₂ /hr	12 bar	62000018
EASYZON 130 D	130 g ClO ₂ /hr	12 bar	62000012
EASYZON 300 D	316 g ClO ₂ /hr	8 bar	62000014
EASYZON 700 D	800 g ClO ₂ /hr	10 bar	62000015
EASYZON 1400 D	1440 g ClO ₂ /hr	4 bar	62000016

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Dimensional figure



EASY-ZON	Width [mm]	Height [mm]	Depth [mm]	Connection suction lines	Connection for dilution water
Type	X	Y	Z	①	② and ③
35 D	750	1000	340	PVC tube 4/6 mm	PVC pipe d25/DN20
60 D	750	1000	340	PVC tube 4/6 mm	PVC pipe d25/DN20
130 D	750	1000	340	PVC tube 4/6 mm	PVC pipe d25/DN20
300 D	900	1350	420	PE tube 6/8 mm	PVC pipe d25/DN20
700 D	900	1350	420	PE tube 6/8 mm	PVC pipe d32/DN25
1400 D	900	1350	450	PE tube 8/12 mm	PVC pipe d32/DN25

All measurements are given in mm

Scope of Delivery

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

- Dosing pumps with back pressure valve and flow monitor
- Calibration cylinder for the dosing pumps
- Reactor in protective cabinet with active venting
- Control unit with display of all operating statuses
- Pre-dilution of the ClO₂ solution with shut-off valves, check valve, flow meter and static mixer

Suction lines and float switches for the chemicals tanks are included in the scope of delivery.

Accessories

In addition to the basic 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
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 alarm device for monitoring the room air	23600211
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, circulation pumps for diluting water).

EASYZON® is a registered trademark of Lutz-Jesco GmbH, Wedemark.

The Compact

Chlorine dioxide system 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.

Dosing Disinfectant Properly

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.

Accessories

- Additional dosing console for chlorine dioxide solution
- Photometer for the water parameters
- Protective equipment kit
- Ambient air sensor
- Collecting pans
- Leakage sensors
- Injection nozzles
- ... and much more



Functions

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

Scope of Delivery

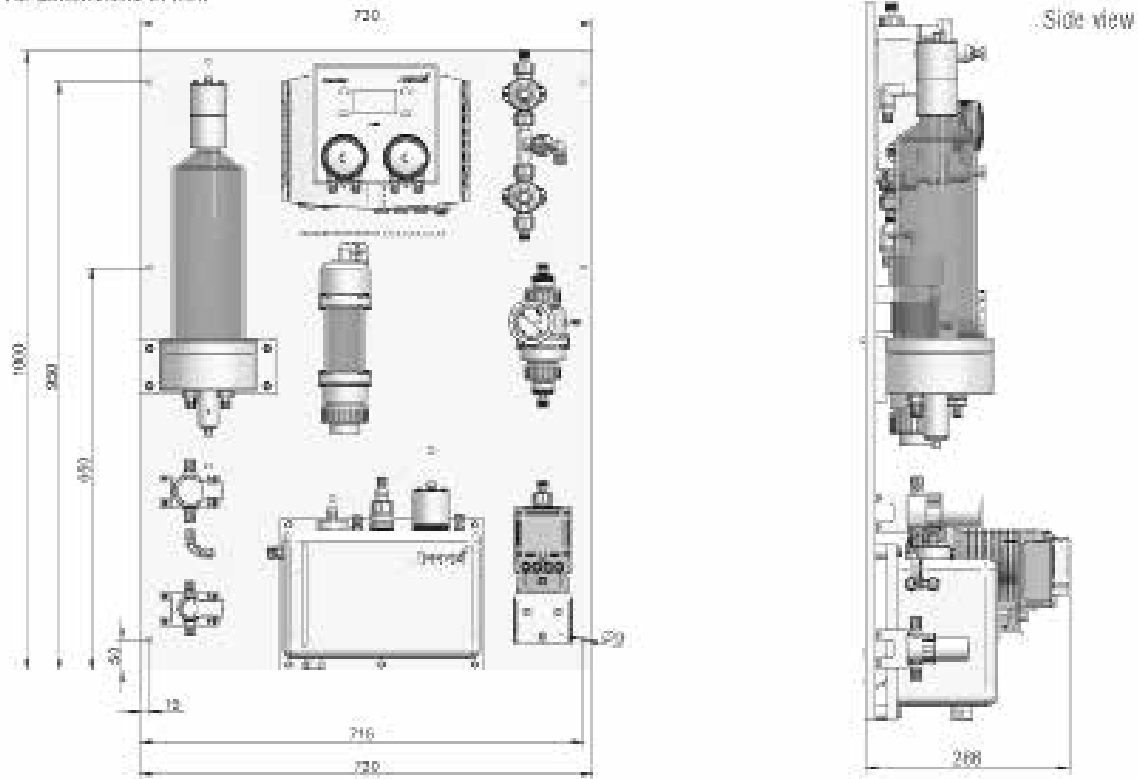
EASYZON 5 is installed on a wall plate with the following assemblies:

- Control unit with peristaltic pumps
- Reactor
- Solenoid valves
- Product tank
- Activated carbon cartridge
- Dosing pump for chlorine dioxide solution
- Back-pressure and pressure relief valves
- Pulsation dampener

The standard scope of delivery includes 2 suction pipes (25 inches, including connection hose) for extracting chemicals from the commercial containers.

Dimensions

All dimensions in mm



Technical Specifications

Item	Description
Productive capacity	5 g ClO ₂ /hr
Product concentration	2 g ClO ₂ /l
Dimensions (W x H x D)	29 x 40 x 11 inches
Weight with filled tank	approx. 70 lbs
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	50 - 104 °F
Useful volume of the product tank	1.5 gallons
Lifetime of the ClO ₂ solution at a storage temperature of 15 °C	> 24 hours
Chemicals used Hydrochloric acid Sodium chlorite	9 % according EN 939 7.5 % according EN 938
Diluting water in drinking water quality	max. 5 l/hr 14 - 72 psig
ClO ₂ dosing pump	MAGDOS DX 4
Dosing pressure	up to 145 psig
Control of the dosing pump	pulse frequency