

The compact one

EASYZON[®] Dd chlorine dioxide system



The compact solution

Chlorine dioxide is a well-known and effective oxidant for use in water treatment and is used in a range of applications including drinking water and process water.

Chlorine dioxide has a high disinfectant effect. It is even effective with high pH values which would render chlorination ineffective. The odour threshold of chlorine dioxide is higher than that of chlorine and it has a longer usage life in tap water. Chlorine dioxide is thus much better suited for use in complicated piping.

EASYZON Dd is a compact system for local production of chlorine dioxide; it is characterised by a reliable function and simple operation.

Functions

- Long-term stable disinfectant
- Production process (only on-site)
- Favourable price
- Compact design
- Easy to operate
- Integrated monitoring of all functions
- Disinfection also effective with a high pH value
- Systems available for direct or batch operation

The correct dosage of disinfection

The system works according to the acid chlorite procedure using commercially-available chemicals.

The dosing pumps for the chemicals are fitted with calibration cylinders, back-pressure valves and pulse flow monitors. Flexible suction lines with float switches are included in the scope of delivery.

The pressure-resistant reactor is located in a protective box with active venting. The chlorine dioxide solution is diluted with water in a static mixer at the reactor output and transported in this water to the location of use.

The control monitors the dosing and the flow of the dilution water. It displays all operating and fault messages. A number of signal inputs and remote indications are available for remote control.

Technical data

EASYZON®		15 Dd / Compact	30 Dd / Compact	60 Dd / Compact	100 Dd	200 Dd	600 Dd	800 Dd	1400 Dd
Max. pressure	bar	10				6	8	5	
Max. production capacity at max. pressure	g ClO ₂ /h	14	26	57	101	239	601	835	1462
Max. production capacity at 4 bar	g ClO ₂ /h	18	32	72	115	247	613	844	1478
Type dosing pump		MAGDOS LD 2			MAGDOS LD 4	MAGDOS LD 10	MEMDOS DX 25	MEMDOS DX 50	
Chemicals		Hydrochloric acid (HCl) 9 % in accordance with EN 939 Sodium chlorite (NaClO ₂) 7.5 % in accordance with EN 938							
Consumption per chemical for 100 % production	l/h	0.45	0.8	1.8	2.9	6.2	15.4	21.1	37
Minimum flow rate of dilution water (max. 2 g ClO ₂ /l)	l/h	9	17	36	58	124	307	422	739
Pressure loss water	bar	max. 0.2							
Concentration in the reactor	g ClO ₂ /l	20							
Product concentration after pre-dilution	g ClO ₂ /l	EASYZON D-B: 0.5 – 2 EASYZON D-D: < 2							
Operating voltage		230 V / 50 Hz							
Protection class		IP54							
Power consumption	W	19	19	19	25	25	50	120	120
Max. current consumption during dosing stroke	A	1.1			1.4		0.7	1.5	
Weight	kg	25 approx.					50 approx.	70 approx.	75 approx.
Ambient temperature	°C	5 - 40 (no exposure to direct sunlight)							
Temperature of the medium	°C	5 – 35							
Air humidity	%	max. 90							

EASYZON is a system for the "in situ" production of the biocidal active agent "chlorine dioxide": In accordance with the biocide ordinance, as of 01/09/2015, the member states of the European Union may only use precursors for biocidal active agents produced "in situ" and which are used as disinfectants. These precursors must satisfy the quality requirements made of these substances by DIN EN and be sourced from a manufacturer or supplier listed in accordance with article 95 of the biocide ordinance. Please ask your supplier to confirm conformity with the biocide ordinance (certificate).

Biocidal active agent:

Chlorine dioxide: EC-Nr. 233-162-8;
CAS-Nr. 10049-04-4; DIN EN 12671

Precursors:

Hydrochloric acid (9.0 %): EC Nr. 231-595-7;
CAS-Nr. 7647-01-0; DIN EN: 939
sodium chlorite (7.5 %): EC-Nr. 231-836-6;
CAS-Nr. 7758-19-2; DIN EN 938

Accessories

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

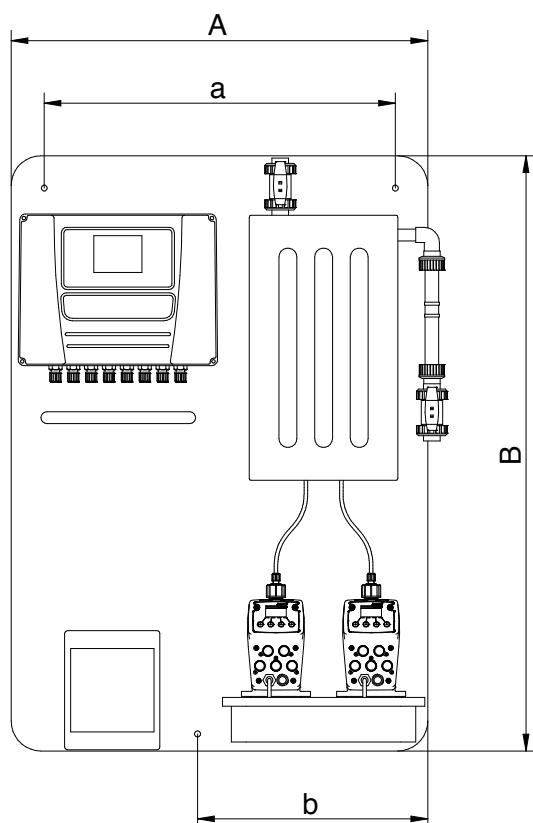
- Collecting pan for a chemical container
- A set of warning signs for ClO₂ systems in German or English
- A photometer for manual ClO₂ measurement in water
- ClO₂ gas warning device for monitoring in the surrounding air
- Protective clothing

For selecting other accessories to be integrated into the system we would be happy to advise you (e.g contact-type water meter, measurement and control systems, other withdrawal pumps).

Dimensions

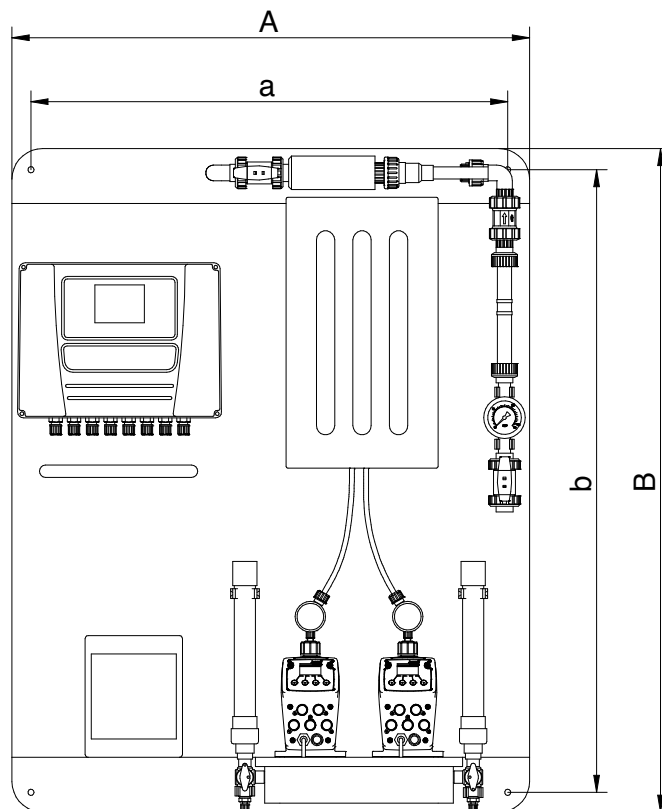
EASYZON Db Compact

All dimensions in mm



EASYZON Dd

All dimensions in mm



Model	A/a	B/b	C*	Connection pre-dilution	Connection Suction lines		
15 Dd / 15 Dd Compact	700 / 590	1000 / 330	370	d.25 – DN 20	6 x 4 mm		
30 Dd / 30 Dd Compact							
60 Dd / 60 Dd Compact	850 / 770	1090 / 1010		d.32 – DN 25			
100 Dd							
200 Dd							
600 Dd	900 / 820	1350 / 1270	420	d.32 – DN 25	8 x 6 mm		
800 Dd							
1400 Dd	1000 / 920	1700 / 1620					

*:depth