

Chlorine Dioxide System Bello Zon[®] CDLb

Compact dimensions and maximum cost-effectiveness - chlorine dioxide system for one or more points of injection.



0 – 120 g/h capacity with storage of up to 60 g of chlorine dioxide for peak metering. Max. flow rate at 0.2 ppm ClO₂ metering capacity of 600 m³/h

In batch production a chlorine-free chlorine dioxide solution is generated from a sodium chlorite solution and hydrochloric acid. This is an extremely safe, managed process.

The concentration of the chlorine dioxide solution remains constant even during storage. This means that the chlorine dioxide can be buffered in an integrated or external storage module at a concentration of 1,000 or 2,000 mg/l.

Because the chlorine dioxide is buffered in this module, the system can be designed in line with average rather than peak consumption. This drastically reduces investment costs in comparison with conventional systems.

The ProMinent[®] product range includes a wide range of metering pumps and control versions from which to choose when operating several injection points using chlorine dioxide from a storage module.

No chlorine dioxide can escape from the system due to the closed gas transport system, thereby guaranteeing economical, environmentally friendly operation with minimal use of chemicals. In addition, the chlorine dioxide solution generated with maximum output offers excellent long-term stability with minimal consumption of starting chemicals.

Integration of the system into your process is simple and reliable with the wide range of accessory modules. Please ask our sales representatives for information about our modular systems specifically designed for CDLb.

The chlorine dioxide system Bello Zon[®] CDLb meets the high standards stipulated in data sheets W 224 and W 624 published by the German Association for Gas and Water (DVGW).

Your benefits

- Reduced costs thanks to minimal use of chemicals
- Cost-effective way to provide several points of injection
- Quick ramp-up time after downtime thanks to long-term stability of chlorine dioxide solution
- Maximum output due to closed gas transport system
- Outstanding operating safety and reliability, thanks to intrinsically safe process control
- Ultra-simple process integration

Field of application

- Disinfection in the food and beverage industry. Especially for bottle rinsers, CIP (cleaning in place), bottle washing machines and fruit / vegetable washing
- Legionella control and prevention, e.g. in hotels or hospitals
- Market gardening: Germ-free irrigation water and sprinkler irrigation water
- Treatment of cooling water and potable water
- Filter disinfection, e.g. in swimming pools

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Technical Data

Type	Generation capacity	Operating temp.	Solution concentration	Capacity	Dimensions (approx.) H x W x D (mm)	Weight
	g/h	°C	mg/l	l/h	mm	kg
CDLb 06	6*	10–40	1,000	8	1,236 x 878 x 306	41
CDLb 12	12*	10–40	2,000	8	1,236 x 878 x 306	42
CDLb 22	22*	10–40	2,000	13	1,236 x 878 x 306	46
CDLb 55	55* ¹⁾	10–40	2,000	30	1,550 x 800 x 345	73
CDLb 120	120** ¹⁾	10–40	2,000	**	1,300 x 880 x 425	55

* Option: Integrated receiver tank and integrated metering pump with suitable capacity up to 7 bar back pressure.

** With external receiver module and separate metering pump

¹⁾ Without cover

Interfaces

Type CDLb		6 g/h	12 g/h	22 g/h	55 g/h	120 g/h
Water inlet	ProMinent/Neutral	12-9	12-9	12-9	12-9	Di20/DN15
	Swiss	Di20/DN15	Di20/DN15	Di20/DN15	Di20/DN15	Di20/DN15
Connector dimensions of metering pump for acid and chlorite		6x4	6x4	6x4	6x4	6x4
ClO ₂ output	with internal storage/pump/back pressure valve	6-4	6-4	12-9	12-9	
	with internal storage tank/pump	6-4	6-4	12-9	12-9	
	with internal storage tank, without pump	6-4	6-4	8-5	12-9	
	with external storage tank, without pump (reactor outlet)	12-9	12-9	12-9	12-9	Di25/DN20
	external storage tank (suction lance connector)	Di25/DN20	Di25/DN20	Di25/DN20	Di25/DN20	Di25/DN20

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