

Efficient and safe

Chlorine dioxide system type Bello Zon[®] CDEa



The low-cost entry-level model for the treatment of medium to large amounts of water with 5-140 g/h chlorine dioxide, designed to offer very easy operation and clear system layout. Continuous treatment is efficient and simple thanks to the use of diluted chemicals.

Ready-to-use, complete chlorine dioxide systems Bello Zon[®] CDEa systems are used in the continuous production and metering of 5 g to 140 g of chlorine dioxide per hour with diluted chemicals. The system wins over customers with its simple operation and clearly laid out design.

The metering pump stroke lengths are continuously monitored, thereby avoiding inadmissible operating statuses arising from incorrect pump stroke length adjustment.

The system controller is very easy to operate, consisting of a central Start-Stop key and colour-differentiated LEDs to display all the operating statuses. The system can be controlled via a 0/4-20mA external pause contact or via a contact water meter. Warning and alarm messages are made available via separate relay outputs.

Benefits

- Very simple operation
- Minimal investment costs
- Short lead times
- Maximum operating safety, thanks to stroke length-monitored pumps using individual stroke monitoring

Features

- Capacity range 5-140 g chlorine dioxide / hour
- Operating status indicated by LED displays
- External control via 0/4-20 mA analog signal and/or pause contact
- Volume-proportional metering with contact water meter
- Warning and alarm relay outputs

Excellent degree of protection

Applications

- Combatting legionella
- Food and beverage industry
- Municipal potable water and sewage treatment
- Industry (cooling tower waste/process water etc.)

Type	Chlorine dioxide capacity *	Chlorine dioxide capacity *	Max. operating pressure **	Operating temperature	Metering pump hose connection dimension Acid and chlorite	Dimensions HxWxD	Weight
	min. – max. / hour g/h	min./day g/d	bar	°C	mm	mm	kg
CDEa 45	5-45g/h	16	8	15-35	6x4	958x700x195	21
CDEa 80	8-80g/h	30	8	15-35	6x4	958x700x195	22
CDEa 140	14-140g/h	50	8	15-35	8x5	1200x700x195	24

* Metering data based on a back pressure of 5 bar and ambient temperature of 20°C.
The minimum hourly capacity is based on the assumption that if the system is operated below 10% of nominal power, continuous metering is no longer possible due to the resulting low pump frequency of the metering pumps.

Where systems are operating continuously, the reactor contents should be changed at least twice a day.
The plant should not, therefore, be operated below the stated minimum capacity/day.

** At max. ambient temperature of 35°C

1) Subject to technical modifications and design changes

Power supply 100-230V, 50/60Hz
Operating fluids: Sodium chlorite 7.5%, purity according to EN 938
Hydrochloric acid 9% purity according to EN 939

The system includes:

BelloZon® CDEa systems are supplied connection-ready on a wall panel. Connection to the site bypass line is via DN 20 PVC threaded connectors with straight solvent unions. Suction lances for the chemical pumps, safety collecting pans for the chemical drums and other accessories such as flushing equipment with a vacuum relief valve must be ordered separately.