

For a Safe and Clean Future – with ProMinent

Innovative generation and metering of chlorine dioxide with Bello Zon® CDVc



Complete Bello Zon® CDVc chlorine dioxide systems that come ready for connection are used in the production, metering and monitoring of chlorine dioxide at rates from 20 to 2000 g/h. A completely re-engineered reactor concept guarantees chlorine dioxide is produced and metered in an innovative process. Food-safe PVDF is used for the first time instead of PVC that, to date, has been in widespread use in this sector. This new development contributes to higher operational reliability and improved purity of the chlorine dioxide produced. The central system controller manages the precise production of chlorine dioxide. All water treatment parameters are registered and documented. Up to 14 measuring stations and up to 14 metering stations can be monitored and controlled simultaneously. The metering stations operate independently and can be supplied from a central supply tank. The system is equipped with all commonly used communication options to facilitate integration in central control systems or remote diagnosis.

Advantages

- Efficient operation as only one system is required to produce, meter and monitor ClO_2
- PVDF reactors ensure maximum operational reliability and purity of the produced ClO_2
- Pumps with stroke-length monitoring are used for maximum operational efficiency
- The most commonly used interfaces and WEB servers ensure flexible integration in higher-ranking control and visualisation systems
- Integrated storage of all operating parameters and measured values for effective quality management
- Automatic monitoring of operating parameters and maintenance intervals
- Clear operator prompting in plain text ensures easy and safe operation

Features

- ClO_2 produced at a rate of 20 - 2000 g/h based on the chlorite acid principle in accordance with DVGW Specifications W 224 and 624
- PVDF reactor
- Metering pumps with stroke-length monitoring
- System controller with large colour display, integrated data logger and screen recorder
- Range of communication interfaces, integrated WEB server
- ClO_2 distributor system with up to 14 metering stations
- Measurement and documentation of ClO_2 , chlorite, pH, redox and temperature



Further information:
www.prominent.com

Bello Zon® CDVc Chlorine Dioxide System

Main applications:

- Combating legionella
- Municipal drinking water and waste water treatment
- Food and beverage industry
- Industrial process and cooling water

Technical Data:

Type	ClO ₂ output [g/h]	Operating pressure [bar]	Operating temperature [°C]	Dimensions HxWxD [mm]	Weight [kg]
CDVc 02	1-20	8	10-40	1344x1002x200	26
CDVc 04	2-45	8	10-40	1344x1002x200	27
CDVc 06	6-120	8	10-40	1344x1002x200	28
CDVc 08	12-240	8	10-40	1342x1000x248	45
CDVc 10	30-600	8	15-40	1700x1200x275	84
CDVc 14	100-2000	4.5	15-40	1900x1400x370	120

Electrical connection:

90-230 V, 50/60 Hz

Control inputs:

2 freely configurable analogue inputs 0/4-20 mA for connection of ClO₂ or chlorite measuring probes, water meter, controlled variables and disturbance variables
4 floating contact inputs for the functions: Pause, External Fault, Sample Water Monitoring and Leak Monitoring
1 input for contact water meter with reed contact, Hall sensor or NAMUR output and IDM with frequency output

Control outputs:

1 freely configurable analogue output 0/4-20 mA for outputting ClO₂ and chlorite measured values, flow rate, current output and controlled variables
3 power relays (230 V, 3 A) for the messages: Operation (NO), Warning (NO) and Alarm (changeover NO/NC)

Communication interfaces:

LAN, ISDN, GSM, Profibus DP

Experts in Chem-Feed and Water Treatment

ProMinent ProMaqua GmbH

Maaßstraße 32/1

69123 Heidelberg

Phone: +49 6221 6489-0

Fax: +49 6221 6489-400

info@promaqua.com

www.promaqua.com