

Chlorine Dioxide System Bello Zon[®] CDKc

Bello Zon[®] CDKc is a deluxe system, persuading customers with its safe handling of chemicals.



8 – 12,000 g/h chlorine dioxide. Max. flow rate at 0.2 ppm ClO₂ metering is 60,000 m³/h

This chlorine dioxide system includes an intrinsically safe pre-dilution station for concentrated hydrochloric acid. The consumption of hydrochloric acid can therefore be adapted on site to the individual operating conditions. Savings of up to a quarter of the acid quantity are possible. The special reactor concept generates chlorine dioxide safely and simply with maximum output. Food-compatible PVDF is used instead of PVC generally used in the industry. This results in improved operating safety and reliability and improved purity of the chlorine dioxide generated. The central system controller manages the precise production of the chlorine dioxide. All parameters relevant for water treatment are recorded and logged.

The stroke lengths of ProMinent[®] metering pumps are monitored online. This rules out hazardous operating statuses

arising from incorrect pump stroke length adjustments. The precise production of chlorine dioxide is managed by the central system control. Chlorine dioxide, chlorite, pH or ORP potential sensors DULCOTEST[®] are directly connected to the two mA inputs. The chlorine dioxide is monitored in the treated water and documented. The chlorine dioxide concentrations in the water can be adjusted automatically depending on the measurement by the integrated PID controller. The integrated data logger documents all status messages and measured values, which the screen writer then visualises on the clear colour display. The systems meet all the requirements of the DVGW specifications W 224 and W 624 with regard to construction and operation and are designed for operation with concentrated chemicals chlorite (24.5% NaClO₂) and acid (25-36% HCl).

Your benefits

- Cost saving through minimal acid consumption
- Cost-effective operation by the use of inexpensive concentrated output chemicals
- Efficient operation, thanks to production, metering and monitoring of ClO₂ with just one system
- Maximum operating safety and purity of the ClO₂ produced through the use of PVDF reactors
- Integrated measuring and control technology
- Perfect quality management, thanks to integrated storage of all operating parameters and measured values

Field of application

- Municipal potable water and waste water treatment
- Industrial process and cooling water

Chlorine Dioxide System Bello Zon® CDKc

Bello Zon® CDKc is a deluxe system, persuading customers with its safe handling of chemicals.

Technical Data

Type ¹⁾	Chlorine dioxide dosing capacity* ¹⁾		Max. operating pressure**	Operating temp.	Connection dimensions of chlorite and acid metering pumps	Dimensions of the bypass connector
	min.-max./hour g/h	min./day g/d				
CDKc 150	8-150	56	8	10-40	6x4	25
CDKc 400	20-400	140	8	10-40	8x5	25
CDKc 900	45-900	300	8	10-40	8x5	32
CDKc 2000	100-2,000	700	5	10-40	8x5	40
CDKc 2800	140-2,800	700	5	15-40	8x5	40
CDKc 7300	365-7,300	1,750	3	15-40	DN 10	40
CDKc 12000	600-12,000	1,750	2	18-40	DN 10	40

Type ¹⁾	Dimensions*** H x W x D (mm)	Weight***	Power consumption (max.) ****		Power uptake
			230 V	115 V	
	mm	kg	A	A	W
CDKc 150	1,380 x 880 x 320	55	0.7	1.2	130
CDKc 400	1,650 x 880 x 445	80	0.9	1.2	180
CDKc 900	1,920 x 920 x 510	95	1.4	2.5	250
CDKc 2000	1,880 x 1,320 x 570	160	2.2	3.5	410
CDKc 2800	1,880 x 1,320 x 570	160	2.2	3.5	410
CDKc 7300	2,250 x 1,850 x 460	175	5.5	6.4	640
CDKc 12000	2,250 x 1,850 x 460	180	5.5	6.4	640

* The metering figures relate to 5 or 2 bar back pressure and an ambient temperature of 20 °C. The minimum capacity/per hour is based on the fact that when the system is operating at below 5% of the nominal power, continuous metering is no longer possible, due to the correspondingly low pumping frequency of the metering pumps. When systems are not operating continuously, the reactor contents must be changed at least twice daily. The system should not, therefore, be operated below the stated minimum capacity/day.

** At 35 °C ambient temperature

*** Without bypass pump, flushing valve and water supply line

**** 230 V figure with bypass pump (CDKc 150-900), 115 V figures without bypass pump

¹⁾ **Subject to technical and design changes.**

Dimensions of the pre-dilution unit (H x W x D) for CDKc 150 - 12,000: 1,200 x 900 x 300 mm

■ SYDNEY OFFICE

Unit 4, 4 Narabang Way,
BELROSE NSW 2085
P 02 9450 0995 F 02 9450 0996
sales@prominentfluid.com.au

■ QUEENSLAND OFFICE

Unit 1, 68 Murdoch Circuit,
ACACIA RIDGE QLD 4110
P 07 3213 1900 F 07 3272 0445
pfcqld@prominentfluid.com.au

■ VICTORIA OFFICE

Unit 1/21-22 National Drive
HALLAM VIC 3803
P 03 8795 7430 F 03 8975 7431
pfcvic@prominentfluid.com.au

■ WESTERN AUSTRALIA OFFICE

Office 11, 34 Welshpool Road
Welshpool WA 6106
E: pfcwa@prominentfluid.com.au