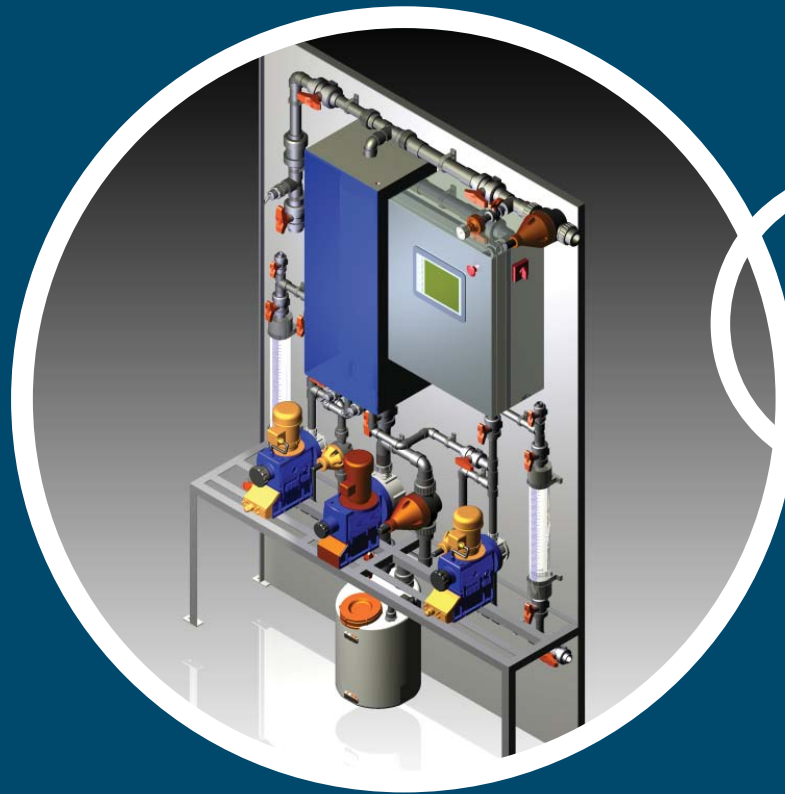


dioxide

PACIFIC



OxiMax CD2D & CD2C
Chlorine Dioxide Generators

2-Chemical Acid-Chlorite Generation

If you are concerned about handling acid, take a look at our CDE range of electrochemical chlorine dioxide generators - only one chemical required - no acid.

Contact us for a CDE generator brochure or download one from our website www.dioxide.com



Dioxide Pacific can provide the complete disinfection package or just the components you require.

Optional components include:

- Chemical suction lances
- Chlorine dioxide residual analyzers
- Bulk chemical tanks
- ORP (Redox) controllers
- Chemical transfer systems
- Chlorine dioxide gas monitors (leak detection)
- Tank level monitoring
- By-pass pump
- Portable building mounting
- Mech and elec installation
- Commissioning
- Maintenance and chemical supply

CD2D FOR DILUTE CHEMICAL
CD2C FOR CONCENTRATED CHEMICAL

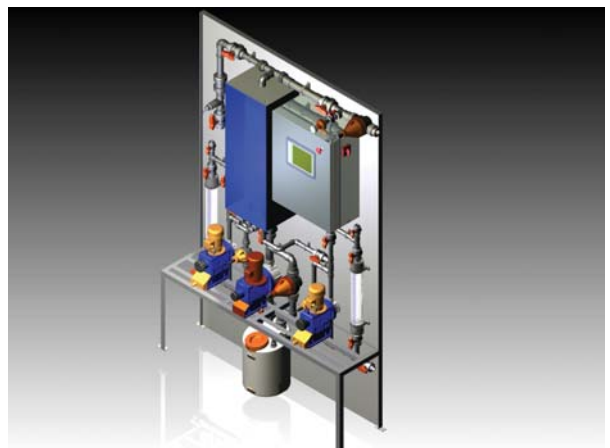
CHLORINE DIOXIDE IS PRODUCED USING
THE ACID-CHLORITE REACTION



Metering pumps for acid and chlorite deliver chemical accurately from customer supplied chemical drums or tanks. Chemical is dosed accurately through the metering pumps, through flow switches and injection valves into a reaction chamber. For the CD2C generator, water is also metered to dilute the acid and chlorite down to the correct concentration. Acid and chlorite are intimately mixed and undergo reaction time in the reaction chamber, which is optimized for high reactant surface area. From the outlet of the reaction chamber, 2% chlorine dioxide solution is dosed into a by-pass line for additional dilution and safe transportation to the dosing point.

Normally, where chlorine dioxide is to be dosed into a pipeline, a by-pass stream is tapped off and directed to the OxiMax generator. The generator has by-pass pipework, rotameter, flow switch and static mixer built into the standard assembly with isolation and check valves. Flow through the by-pass is sized to ensure maximum concentration of 3,000 ppm ClO_2 .

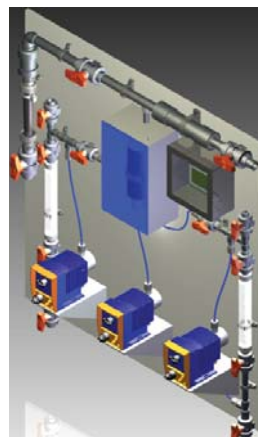
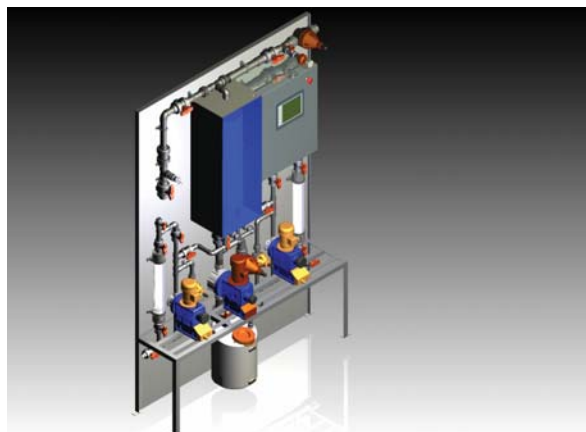
Chlorine dioxide dosing can be flow paced, residual controlled or a combination of the two. Inputs are available for pulse, stop-start or 4-20mA and the OxiMax generator controller allows the operator to enter the desired ClO_2 dosing setpoint, view residual and flow and operating status of all devices. Loss of chemical flow or other failure signals will trigger faults and shut the generator down. The OxiMax CD generators are operator friendly and can be viewed/controlled remotely via the internet.



THE OXIMAX GENERATOR IS THE BEST AVAILABLE

Take a look at the features.

Feature	Benefit	What this means to you
Metering pumps for chemical dosing and water	Reliable and accurate chemical dosing with large turndown capability	Low chemical consumption per kg (pound) of ClO ₂ and accurate dosing of ClO ₂ for your process.
PLC controlled system with touchscreen HMI	All items are controlled from a central PLC and the touchscreen provides an operator friendly way to view plant operation and status. Fault finding is simple.	It is easy to train operators on how the plant operates. They will feel comfortable using the plant. All the information you need and configuration capability is available.
Dosing pumps have flow monitoring	If dosing pumps are operating and flow is not registered, an alarm will be raised and the generator stopped	If a dosing pump loses prime, the generator won't continue to operate and dose either acid or chlorite into your water circuit. This feature will save chemical and prevent corrosion.
Inbuilt calibration cylinders	Dosing pumps can be properly calibrated so that dosing is accurate. They also act as suction accumulators to prevent loss of prime.	Chemical consumption is minimized and reliability is maximized.
Inputs for level switches from chemical tanks	Generator will provide an alarm on low chemical and stop on low low.	The generator will not continue to operate and waste power if chemical has run out.
By-pass assembly for dilution of chlorine dioxide	The safety of chlorine dioxide dosing is increased with the OxiMax CD2C and CD2D generator by immediately diluting the chlorine dioxide solution produced in the generator to less than 3,000 ppm. This dilute solution is safe to transport to the dosing point.	Operator and environmental safety is maximized so the safety risk of the installation is low. You can sleep easy knowing that the generator is operating safely.
Inputs for remote on/off; flow 4-20mA or pulse, analyzer 4-20mA or pulse; outputs for grams of ClO ₂ produced and fault.	Full flexibility of dosing from either flow, stop/start or residual control available.	Whatever way you wish to dose chlorine dioxide, you can do it accurately with this generator.
Remote internet access	Using a secure broadband connection, users can log on to the HMI and view/operate the generator.	The speed of making a change to the generator or fault finding is greatly increased. In most cases, it will not be necessary to send a serviceperson to site and this will save you time and money.
Optimized reaction chamber	Ensures full conversion of chlorite to chlorine dioxide.	You can be assured that excess chlorite will not enter your water. You will comply with regulatory guidelines and minimize chemical consumption.
Reaction chamber is installed inside a separate enclosure with clear viewing window and vent	Ensures that leaks and spills are kept away from operators and the working environment. Any gas is vented outside away from the generator to a safe location	Risk of operator contact with chlorine dioxide is greatly reduced. The reduced risk provides your operators with a safer work place.
Complete system fabricated on frame and backboard, fully plumbed and wired ready for installation on site	Quick and easy installation process so you can be up and running quickly	Your cost of installation and commissioning is low and there will be minimal disruption to your production.



GENERATOR MODELS AND TECHNICAL DATA

Dilute Chemicals: 7.5% sodium chlorite and 9% hydrochloric acid

Model	Capacity	Pressure	Dimensions	Weight	Power Supply	Chemical Consumption Each Component Flow		By-pass
	g/hr	Bar	H x W x D (cm)	kg		L/kg ClO ₂	L/hr	Min L/hr
CD2D-1	46	10	120 x 120 x 30	20	220-240V, 50/60Hz	25	1.15	23
CD2D-2	60	10	120 x 120 x 30	20	220-240V, 50/60Hz	25	1.50	30
CD2D-3	120	10	120 x 120 x 30	20	220-240V, 50/60Hz	25	3.00	60
CD2D-4	220	7	120 x 120 x 35	45	220-240V, 50/60Hz	25	5.50	110
CD2D-5	400	7	120 x 120 x 35	45	220-240V, 50/60Hz	25	10.00	200
CD2D-6	800	10	120 x 120 x 35	45	220-240V, 50/60Hz	25	20.00	400

US Model	Capacity	Pressure	Dimensions	Weight	Power Supply	Chemical Consumption Each Component		By-pass Flow
	PPD	Psi	H x W x D (in)	lb		Gal/lb ClO ₂	Gal/hr	Min Gal/hr
CD2D-1US	2.4	145	47 x 47 x 12	44	110V, 50/60Hz	3	0.30	6
CD2D-2US	3.2	145	47 x 47 x 12	44	110V, 50/60Hz	3	0.40	8
CD2D-3US	6.3	145	47 x 47 x 12	44	110V, 50/60Hz	3	0.79	16
CD2D-4US	11.6	101.5	47 x 47 x 14	99	110V, 50/60Hz	3	1.45	29
CD2D-5US	21.1	101.5	47 x 47 x 14	99	110V, 50/60Hz	3	2.64	53
CD2D-6US	42.2	145	47 x 47 x 14	99	110V, 50/60Hz	3	5.28	106

Concentrated Chemicals: 31% sodium chlorite, 30-33% hydrochloric acid and dilution water

Model	Capacity	Pressure	Dimensions	Weight	Power Supply	Chemical Consumption Each Component		Water Dilution	By-pass Flow
	g/hr	Bar	H x W x D (cm)	kg		L/kg ClO ₂	L/hr	L/kg ClO ₂	L/hr
CD2C-1	150	7	120 x 120 x 30	20	220-240V, 50/60Hz	5.26	0.79	36	5.40
CD2C-2	420	10	150 x 150 x 40	40	220-240V, 50/60Hz	5.26	2.21	36	15.12
CD2C-3	750	7	160 x 150 x 40	70	220-240V, 50/60Hz	5.26	3.95	36	27.00
CD2C-4	1500	7	180 x 150 x 43	120	220-240V, 50/60Hz	5.26	7.89	36	54.00
CD2C-7	2250	4	180 x 150 x 43	120	220-240V, 50/60Hz	5.26	11.84	36	81.00
CD2C-5	6000	7	300 x 150 x 50	260	220-240V, 50/60Hz	5.26	31.56	36	216.00
CD2C-6	10000	4	300 x 150 x 50	260	220-240V, 50/60Hz	5.26	52.60	36	360.00

US Model	Capacity	Pressure	Dimensions	Weight	Power Supply	Chemical Consumption Each Component		Water Dilution	By-pass Flow
	PPD	Psi	H x W x D (in)	lb		Gal/lb ClO ₂	Gal/hr	Min Gal/hr	Min Gal/hr
CD2C-1US	7.9	101.5	47 x 47 x 12	44	110V, 50/60Hz	0.63	0.21	4.3	1.43
CD2C-2US	22.2	145	59 x 59 x 16	88	110V, 50/60Hz	0.63	0.58	4.3	3.99
CD2C-3US	39.6	101.5	63 x 59 x 17	154	110V, 50/60Hz	0.63	1.04	4.3	7.13
CD2C-4US	79.2	101.5	71 x 59 x 17	264	110V, 50/60Hz	0.63	2.08	4.3	14.27
CD2C-7US	118.8	58	71 x 59 x 17	264	110V, 50/60Hz	0.63	3.13	4.3	21.40
CD2C-5US	316.8	101.5	71 x 59 x 17	572	110V, 50/60Hz	0.63	8.34	4.3	57.07
CD2C-6US	528.0	58	118 x 59 x 20	572	110V, 50/60Hz	0.63	13.89	4.3	95.11



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