

chloriDOS iOX[®]

**100, 200, 250,
500 g/h ClO₂**



High capacity chlorine dioxide generators for safe, reliable and efficient generation of chlorine dioxide.

Using a unique patented process, the iOX[®] automatically draws and mixes precisely measured amounts of acid and chlorite, under vacuum, from respective chemical storage containers. The reacted chlorine dioxide solution is homogenised with a volumetrically controlled flow of cold water, prior to dispensing as a dilute solution into the integral storage tank under atmospheric pressure.



iOX[®] offers outstanding benefits and performance:

- Vacuum process eliminates chemical reagent dosing pumps, greatly improving reliability and reducing maintenance
- Flexibility - reagent chemicals are drawn under vacuum and may be transferred greater than 50m from remote chemical storerooms.
- Precise – reagent consumption is finely controlled by volumetric flow sensors for optimum chemical efficiency
- Easy management - remote monitoring and chemical status reporting via web or SMS messaging
- Simple to operate
- Low whole life costs

Features

chloriDOS
iOX[®]



- iOX[®] models available in 100, 200, 250 & 500 g/h chlorine dioxide generation capacity
- Durable, attractive, easy to clean equipment cover.
- Vivid LED background illumination with colour changing status feature.
- Easy to operate membrane keypad with code protected programming, multi-lingual menu selection, OLED display with green, amber, red LED status indicators,
- Alarm event log with real time stamp recording
- Volumetric measurement (<0.2% error) and data storage of chemical reagent consumption values
- Remote monitoring option via web or SMS for monitoring chemical reagent consumption volumes, system status, water meter usage/process volumes and fault indications.
- Skid mounted system, factory wet-tested and pre-commissioned for quick and easy installation
- Standard models with CE conformity.
- 2 year warranty



Specifications

chloriDOS
iOX[®]

Chemical Precursor Specification

Model:	iOX 100	iOX 200	iOX 250	iOX 500
9.0% HCl (EN939)	✓	✓		
7.5% NaClO ₂ (EN938)	✓	✓		
≈15.0% HCl (EN939)			✓	✓
≈14.0% NaClO ₂ (EN938)			✓	✓

Output data is determined by the precursor quality & concentration. Tolerance is permissible up to ±10%, however this may affect the performance specified.

Operating Conditions & Limits

Model:	iOX 100	iOX 250	iOX 200	iOX 500
Water supply inlet pressure (MPa)	0.2-1.6 (Min-Max)			
Reduced pressure value (MPa)	0.05 – 0.1			
Dilution water temperature (°C)	5-20			
Precursor temperature (°C)	10-35			
Ambient temperature (°C)	5-35			
Dilution Water Quality	Potable			
Working Humidity (RH)	20~90% non-condensing			
Max. Altitude (M)	2000 <i>(Ambient temperature derating of 5°C/1000m for operating altitude higher than 2000m/6500ft).</i>			
Pollution Degree	2			

Connections

Hydraulic

Connection	Description
Cold water dilution	½" BSPf
Precursor chemical	4mmID x 6mmOD tube compression

Electrical

Connection	Description
Mains power input	M20 cable gland
Signal input/output	M12/16 cable gland
Chemical empty switch input	M12 connector - A code

Consumption Data

Model:	Low strength		High strength	
	100	200	250	500
Nominal water consumption (l/h)	45	90	120	240
Precursor consumption ratio	1:1			
Precursor consumption, each (L/h)	2.5	5	2.5	5

Output Data

Model:	Low strength		High strength	
	100	200	250	500
Generation capacity (g/h ClO ₂)	100	200	250	500
Generation capacity (L/h)	50	100	125	250
Solution concentration (mg/L ClO ₂)	2000			
Product tank volume (L)	80			

Electrical Specification

Description [all models]	
Power supply	1Ø, 100-240VAC
Power rating	20W (excluding auxiliary equipment)
Aux output	1Ø, 100-240VAC, 5A
Enclosure class of electronic panel	IP64
General system protection class	IP64

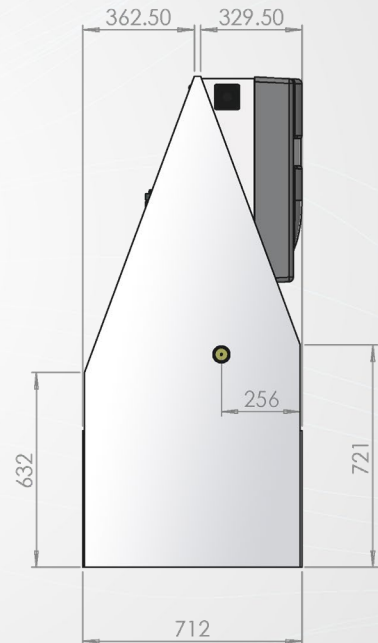
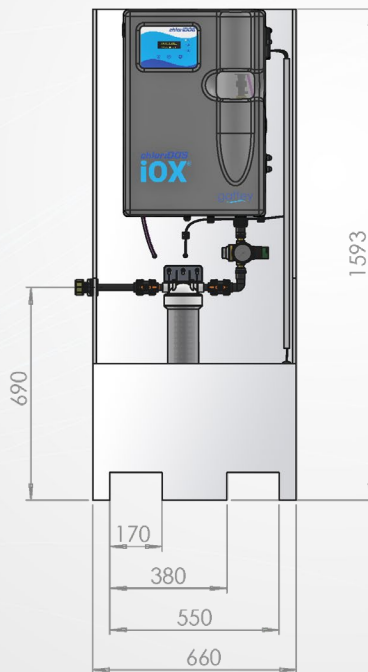
Net Weight

Model	Kg
iOX 100/250	78
iOX 200/500	80

Order codes

Generator capacity	
3050400	100g/h chlorine dioxide generator at 2000mg/l ClO ₂ solution
3050401	200g/h chlorine dioxide generator at 2000mg/l ClO ₂ solution
3050402	250g/h chlorine dioxide generator at 2000mg/l ClO ₂ solution
3050403	500g/h chlorine dioxide generator at 2000mg/l ClO ₂ solution
Cover	
C0	Grey cover hood
Power Supply	
V1	100-240Vac 50/60Hz
Communication Interface	
R0	Without comms
R1	RS485 Modbus RTU
3050400	C0
V1	R0
Match code order example	

Dimensions



(Fits through standard doorways)

chloriDOS® iOX® systems sales and service support are available through our network of [approved partners](#). chloriDOS and iOX are the registered trademarks of Gaffey Technical Services Ltd.
© 2020 Gaffey Technical Services Ltd

For further information or assistance:
info@gaffey.co.uk



Gaffey Technical Services Ltd
Unit 3A Newhouse Road, Huncoat Business Park,
Accrington, Lancashire, BB5 6NT, UK.
T. +44(0)1254 350180 info@gaffey.co.uk www.gaffey.co.uk

gaffey
WATER TREATMENT FOR LIFE